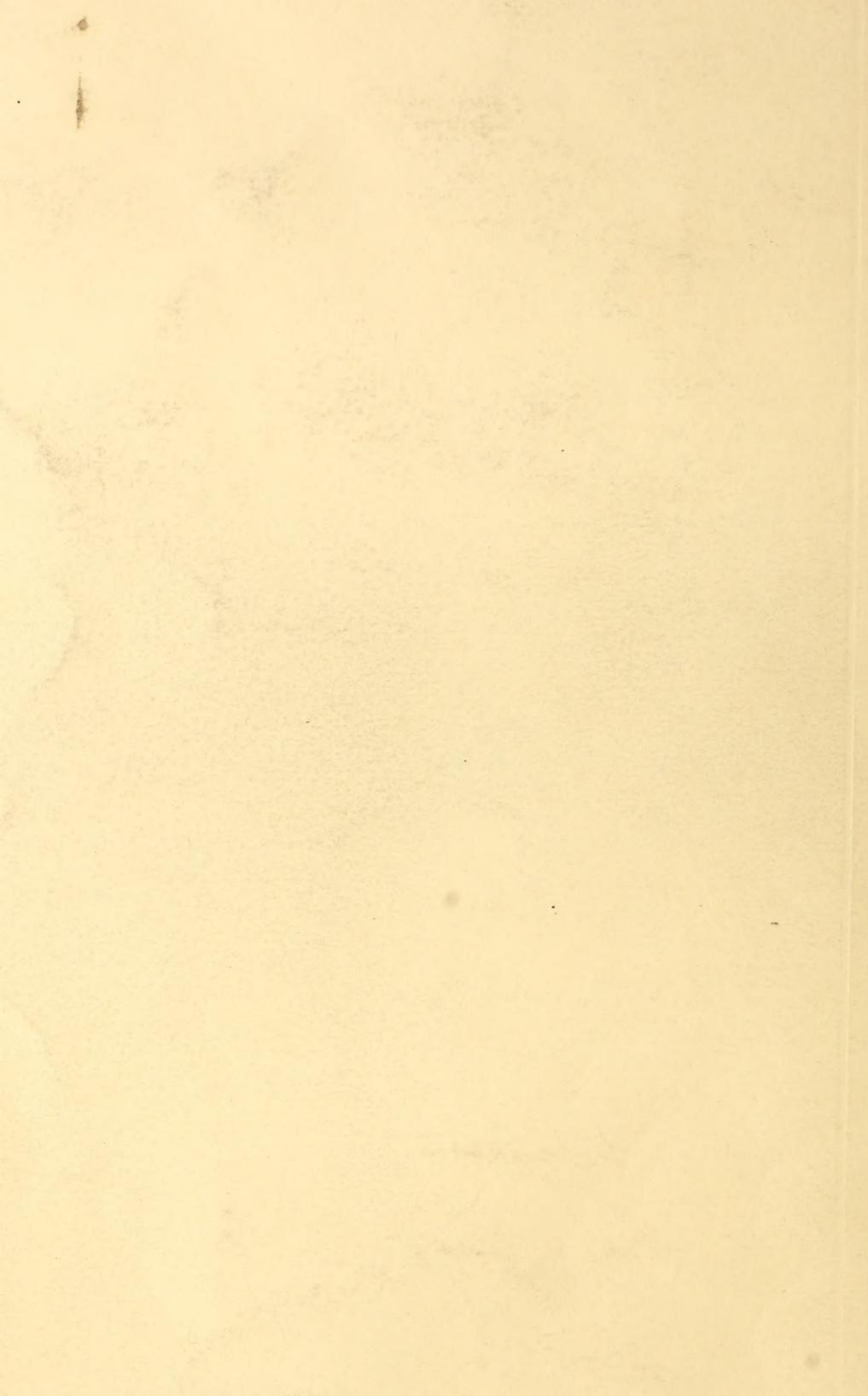


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12 Annual
SEED CATALOGUE
1899

SURE
TO
GROW



SEEDS

FOR FARM

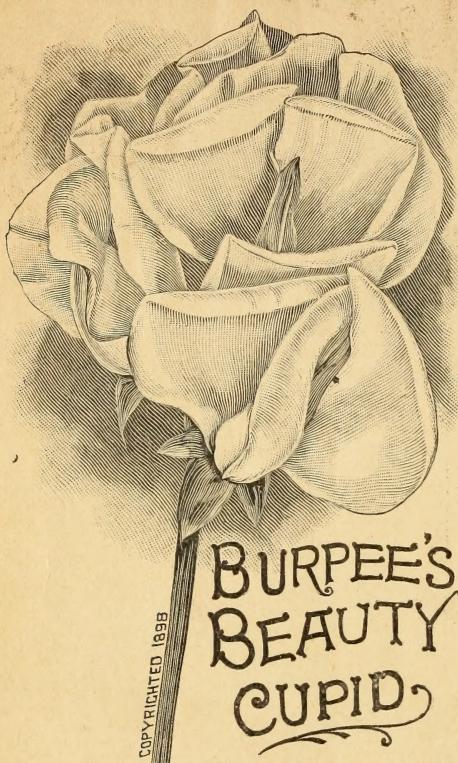
GARDEN

& FIELD.

KIRKINGSTON'S
SEED STORE
708 & 710 LOCUST ST DES MOINES, IOWA

NOVELTIES IN SWEET PEAS.

New Dwarf CUPID Sweet Pea—"BEAUTY" CUPID.



NEW PINK CUPID.

The standard of the flower is wide, not infrequently measuring an inch and a half, but not over an inch high, being developed latterly. It usually curves over a trifle from the top, partly concave, which gives the standard a distinct shell-shaped appearance. The standard is a bright rose-pink, while the wings are pure white or light pink. The wings are very large and finely formed; when pressed back against the standard they extend fully a quarter of an inch beyond it.

The substance of the blossom is peculiarly heavy and it will appear fresh and vigorous in a glass of water long after its long-stemmed parent has withered and died. The plant itself is vigorous and hardy, and those who had poor or indifferent success with White Cupid will find **PINK CUPID** easy to grow anywhere. The seed which is black is of wonderfully strong germination, and the plant is an early bloomer, coming into blossom simultaneously with White Cupid.

Though flowering early, it continues in bloom very late, bearing a profusion of blossoms so thickly as to completely hide the plant itself. It will be without a rival as a bedding and border annual, for its color and fragrance make it a rare novelty.

No novelty of recent introduction has such brightness, beauty, and grace combined as **PINK CUPID**. It is also delightfully fragrant, and will be admired by every one who sees it.

Pkt., 10c; oz., 20c; 2 oz., 35c.

One packet each of above three grand NEW CUPID Sweet Peas only 25c. Other choice varieties on page 43.

BEAUTY CUPID,

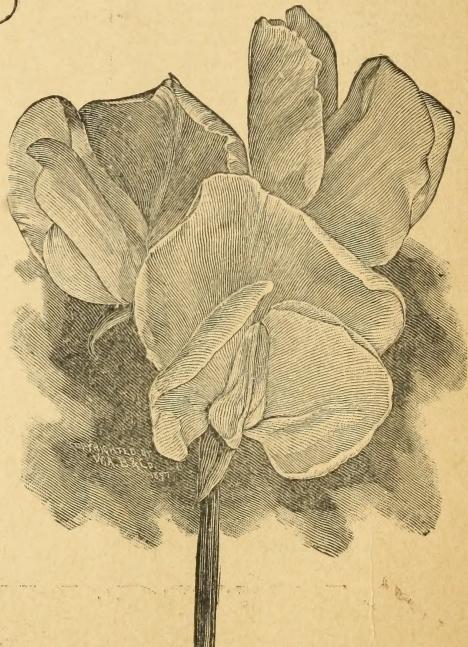
while being always of the true Cupid type—growing only six to seven inches high with deep emerald-green foliage—bears flowers fully equal in size, form, and substance to the best of the new tall Sweet Peas. The handsome large flowers are borne most profusely all over the plant in clusters of three at the top of strong stems. Of unusual breadth, rather pointed at the top, and edges recurved, giving it a deeply hooded effect. The keel is heavily curved, holding the wings well up under the standard; wings quite broad, well expanded, with slightly recurved edges. The standard is a delicate and yet decided rose color, lightening to nearly white at the edges, and slightly striped with carmine at the base. The wings are suffused rosy-carmine, deepening at the edges. A vigorous grower, it is a wonderfully free bloomer, and besides its beauty in the garden promises to be of real value as a commercial flower in greenhouses. Sold only in original sealed packets.

Price per pkt. (12 seeds), 15c; 2 pkts., 25c.

WHITE CUPID

The First Dwarf Sweet Pea ever sent out. The flowers are pure white; height six inches; of spreading habit. Excellent for bedding. A charming companion for the new Pink and Beauty Cupids.

Price per pkt., 10c; oz., 15c; 2 oz., 25c.



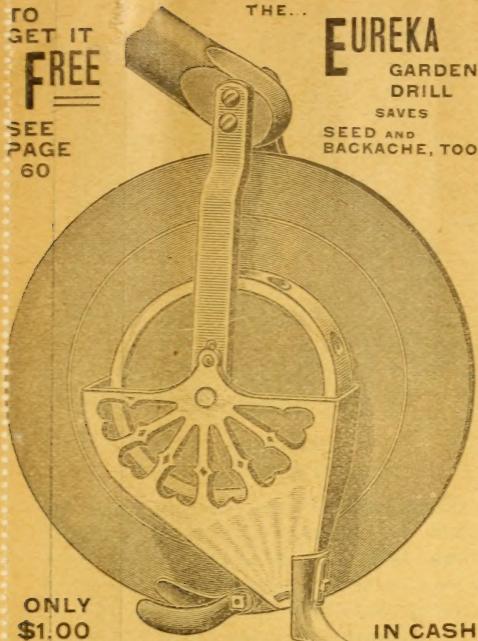
NEW PINK CUPID.

Take this sheet out and use in ordering, observing instructions on first page.

**JOSIAH LIVINGSTON, SEEDSMAN,
DES MOINES, IOWA.**

DES MOINES, IOWA.

TO
GET IT
FREE
SEE
PAGE
60



ONLY
\$1.00

IN CASH

KEEP ORDER DISTINCT FROM LETTER, USING ONLY ONE LINE FOR EACH ITEM.

SENT FREE TO THOSE WHO MAY WANT SOMETHING LATER ON.

Do you grow vegetables to sell?

Geologists, who are accustomed to reading all the rocks, will select the waves and boulders which are to form the new species, especially.

STATS

3MAN

| Bu. | Qts. | Pts. | Lbs. | Oz. | Pkts. |
|-----|------|------|------|-----|-------|
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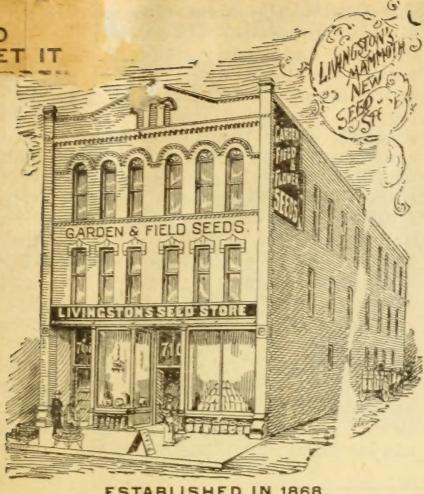
ARTICLES WANTED

NAME

POSTOFFICE

STATE

Will you kindly write below the names and postoffice address of a few of your nearest neighbors, especially gardeners, who are accustomed to sending off for seeds.

TO
GET IT

It's Good Goods That Talk.

It has been my constant aim to supply only the best of everything offered in this catalogue, and my growing trade is good evidence of the wisdom of this policy. Prices for some varieties of seeds will be somewhat higher this season. This is especially true of onion seed, owing to an almost entire failure of the crop in some sections. I am, however, fortunate in getting my contracts filled almost in full, and in securing stock *early* to cover shortages;

so that I am now able to offer seeds at very low rates for first class stock, considering the short crops. I desire to thank those who have favored me with their orders in the past, and especially those who have said a good word for Livingston's Seeds and secured a club order.

Soliciting a share of your orders and at least a trial from new customers for the coming season, I remain,

Yours to command,

**JOSIAH LIVINGSTON, Seedman,
Des Moines, Iowa.**

Please read the following. It may save time and annoyance.

ORDER EARLY—It is best to order as soon as possible after receiving the catalogue. It gives us a better chance to care for the order carefully, and then you will have the seeds on hand, ready to sow at once when needed. This quite often means a saving of valuable time, and dollars in your pocket if you grow for market. The "early bird catches the worm," you know.

ORDER FREELY—Most seeds are as good the second season, so that should you have a few left over it does not matter. It's a great annoyance to run out of seeds just when you need them most. No part of the farm turns off more real value than the garden; so don't stint yourself on garden seeds, at least.

SHIPPING INSTRUCTIONS—Please write your name and address very plainly, and use the same one each time if possible. Tell us the express company, also railroad, at your place. You will find blank spaces on the order sheet for these purposes.

SHIPPING FACILITIES—Des Moines is very well supplied with railroads and express companies. The roads, numbering fifteen, lead out in all directions, thereby making prompt delivery sure, whether sent by mail, express or freight.

HOW TO SEND MONEY—Send remittances by express order, bank draft, postoffice order or registered letter; and make all payable to Jo-iah Livingston. The three ways first mentioned are the best; but when not possible to send in any of these ways, you can always have your postmaster register your letter. Small amounts can be sent in stamps. Always use my return envelope when convenient.

MY CATALOGUE is sent free, and I would be pleased to send it to any one of your friends whom you think would like to have it, and if you will tell them you have asked me to send it, they will better understand how I got their name and how I came to send the book. Of course, if you, having found my seeds reliable, and can "say a good word" for them, I will be "more than pleased."

NEW VARIETIES—If any of our customers have something desirable in seeds which they have had in the family for a number of years and know to be good, and is not already listed in the catalogues, I would be pleased to have a small sample for trial, and as some little return for the kindness of sending it, I will send a package of some new kind of seed for trial.

LARGE AND SMALL ORDERS are alike treated carefully, promptly and cheerfully. If you only want a single packet, don't hesitate to send for it. If you grow vegetables to sell in large quantities, write for my wholesale list, if not a'ready sent you. Please feel free to write at any time.

GUARANTEEING SEEDS—The failure of seeds to grow and prove true to type is so often due to causes with which every one is familiar, and over which the seedsman has no control, that I have thought best to say here, plainly, I do not guarantee seeds, except to replace the amount sold, or its equivalent, when by repeated complaints I am convinced that the failure is due to the seed. Not a responsible seedsman is doing more than this; hence, no one need to hesitate on this account. I use all possible care so as to prevent a failure, as it is as much to my interest, and sometimes more, than it is to yours.

SEED GROWING—I am often asked if I grow all my seeds. My reply is, that all the more important varieties—those from which the main crops are grown—are grown under contract; are inspected during the growing season and subject to rejection if the terms of contract are not carried out to the letter. I have one man who looks after the growing of seed Sweet Corn, Squash, Melon and Cucumber. He furnishes the seed for planting, and allows only one variety to each farmer. Another man has charge of Cabbage seed growing in a similar manner; another, Peas and Beans; another, Onion, Lettuce, Radish, etc., etc. These men are located where each variety or class of seed do the best, producing, as a rule, seed of high grade, as to vitality. Seeds of lesser importance are secured from only the best sources; so that we feel confident no better seeds can be found than those we offer.

List of NEW VARIETIES for 1899. Also Those of SPECIAL MERIT.

ROGER'S LIMA WAX BEAN.

One of Merit and a Most Desirable Acquisition as a Wax Bean.

Named Lima Wax, as the pods are very broad and flat and a most excellent rich quality; it has bright glossy foliage, and the bloom resembles the Dwarf Lima. The plant is branching and vigorous, with an immense amount of foliage; pods are borne in the greatest profusion, often a single plant having 50 to 100 or more pods. When in bloom the plant is completely covered with flowering spikes, and as the pods form in clusters they sink beneath the dense foliage, which shields them from light showers, heavy dews and hot sun, which is a protection against their spotting or rusting and becoming soiled, as compared with other sorts. They require thin planting (two beans being sufficient for a hill) on very rich soil.

The pods are the broadest of all wax bush beans; color transparent glossy lemon wax, having the yellow waxy appearance very soon after the pods are formed. When picked will retain their bright, attractive appearance for a long time and not become tough. Quality very tender, juicy, and flavor delicate, delicious. Seed small, oval, pure white, which is much in their favor compared with a colored bean.

We claim for this variety four essential points: (1) Productiveness. (2) Handsome colored and tender pods. (3) Delicious flavor. (4) White seeded, and will make an excellent dry bean for baking.

Having wonderful productiveness, attractive appearance and keeping qualities, it is likely to become a favorite for main crop with truckers, owing to its tenderness, fine quality and delicious flavor, it cannot help but please those who want the best. Being white seeded, retaining nice rich color, and delicate, delicious flavor, when canned, it will be most desirable for canning. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c; pk., \$3.00.

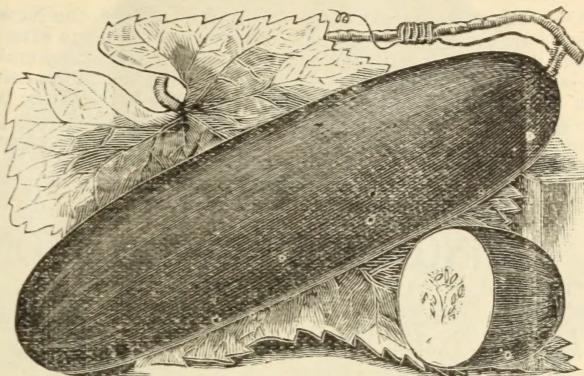
POINTS OF MERIT.

Dwarf Habit.
Robust Growth
Dense Foliage
Productiveness
Unequaled.
Pods Handsome
Colored.
Transparent
Waxy Yellow.
Tender, Juicy,
Delicious Flavor
Excellent Keeping Qualities.
Retains Color and Freshness.
Good Market Bean.
White Seeded.

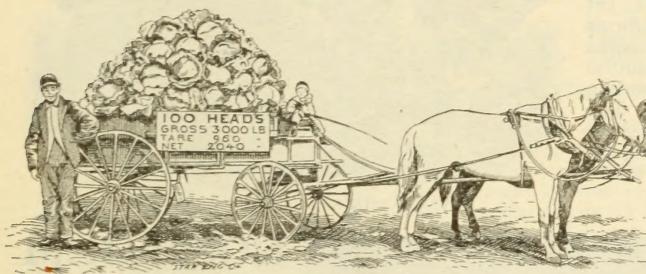


LIVINGSTON'S EMERALD CUCUMBER.

A new sort, offered last season for the first time. We claim it is the **BEST GENERAL PURPOSE VARIETY** ever sent out. It retains every good point in other varieties, and, in addition, has that **rich, dark-green color**, so long sought for, and which is not possessed by any other sort with which we are acquainted. It is what might be called an evergreen cucumber, as it retains its color until fully ripe. Its dark-green, spineless skin attracts attention. The fruit sets on early, and is long, straight and handsome. Flesh crisp, tender and delicate—best variety for slicing, and we are sure cannot be excelled for pickles, especially on account of its dark green skin. For forcing under glass or in greenhouse it is superior to any of the English Frame varieties. It will retain its deep green color after picking longer than any of the other yellow or white sorts. In this respect it is a boon to those who grow for shipping. As an all-purpose variety for kitchen or market garden it is unsurpassed. Price per pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.



LIVINGSTON'S BLUE BLOOM CABBAGE.



A LOAD OF LIVINGSTON'S BLUE BLOOM.

growth throughout the season, resulting in heads of large size, solid and of fine grain and quality. It has very few **outside leaves**, these having the beautiful "blue bloom" on them, suggesting its name. It trims to a fine, white, compact head, and will net more pounds of cabbage fit for any purpose than any variety with which we are acquainted. Pkt., 10c; $\frac{1}{2}$ oz., 20c; oz., 30c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.50.

This variety, it seems to me, cannot be improved for main crop, to be used in the fall, and if planted late it

Keeps All Winter

in prime condition. We grow our stock of it from heads (not stumps), each one of which would sell for a good price on the market. This produces vigorous seed, which in turn produces fine, healthy plants, of strong

HOLLAND CABBAGE.

Sometimes Called DANISH BALLHEAD.

For early marketing we should as soon have the Surehead, or Fottler's Brunswick; but when a large proportion is stored for winter sales, for winter marketing, and pre-eminently for **spring and late spring sales**, when cabbages usually bring the highest price, **this is the cabbage**. THOSE WHO RAISE IT WILL HAVE THE MARKETS OF LATE SPRING ENTIRELY TO THEMSELVES. To get the very hard heavy heads plant ten days earlier than the common Drumhead and manure liberally. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.75.

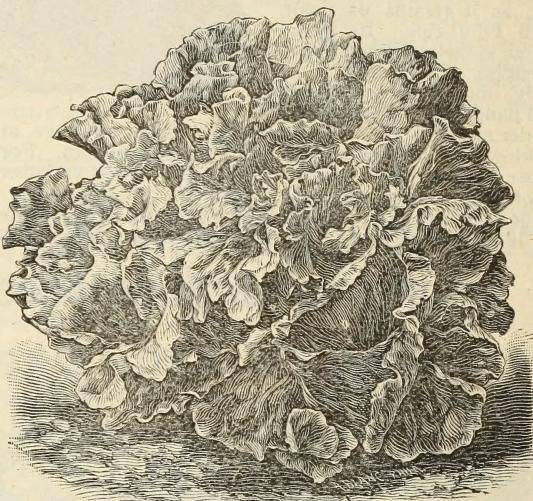
Mrs. Josiah McKibben, Madison Co., Iowa, writes March 5, '97: "Your seeds have all been true to name and I have been more than pleased with them; also with promptness in filling orders."

NEW SWEET CORN, COLUMBUS MARKET.

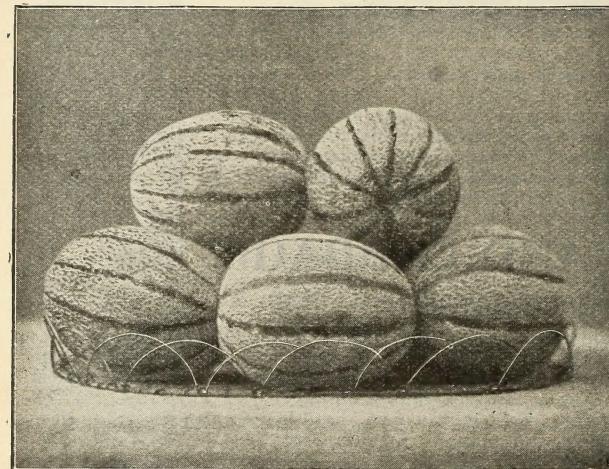
Over all the varieties of Sweet Corn now offered, the New Columbus Market possesses one great advantage, and that is its **very large size** for such an **early sort**. It comes into market with the second earlies, such as Shakers' Early, Crosby's Early, etc., but is fully twice as large as any of them. The tips of the ears are often entirely covered over with kernels. The cob is small and easily broken from the stalk. The ears carry an average of 16 rows of fine, large, deep, white and very sweet grains, which are second to none in tenderness and flavor. Were it not for the fact that it is a very prolific sort, the seed of COLUMBUS MARKET must always be sold at a high price, as it is so persistently evergreen as to render it very difficult to cure for seed purposes. The stalk is very strong, sturdy, and of only medium height. Pkt., 10c; pt., 20c; qt., 30c; pk., \$1.00.

LIVINGSTON'S NEW BON TON LETTUCE.

Our illustration of this grand new Lettuce was made from a photo. The Bon Ton is a very rapid grower, having produced heads of double the size of Hanson under the same treatment and during same period. It is exceedingly crisp, remaining so even after the seed stock has started up. Leaves fit for table use have been pulled from the side of seed stocks. It is, however, almost a seedless variety, as not one-third of it will produce seed stalks. Leaves are somewhat curled, (making it a very pretty sort), yet not so much as to make it difficult to clean for the table. On account of the quick growth, beautiful appearance, and long standing character of the new Bon Ton Lettuce, it recommends itself to the gardener who grows vegetable to sell, as well as for the kitchen garden. Pkt., 10c.



LIVINGSTON'S BON TON LETTUCE.



A TRAY OF ROSE GEM MELONS.

fine-grained, "*smooth as butter*," and very sweet; very similar to the popular Rockyford melons. PRICE OF TRUE SEED—Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

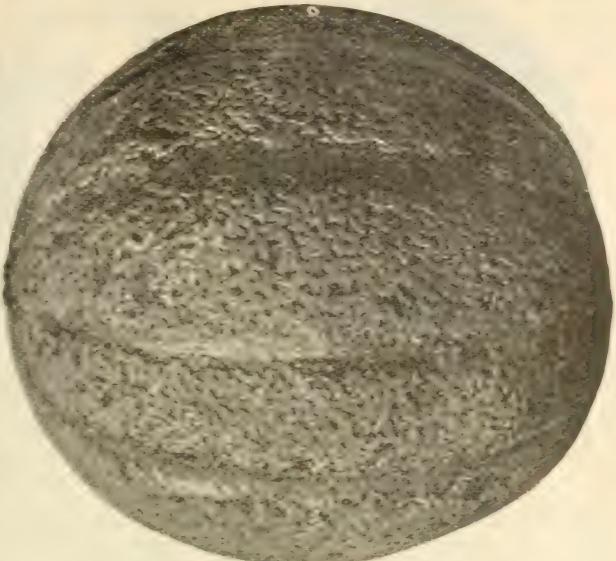
ROSE GEM MELON.

The illustration alongside is an exact reproduction of a photograph of a tray of this **Improved Extra Early Netted Gem Melon**. The shape, it will be observed, is a little more oval than the original strain, which gives them additional strength to stand shipping. The size has also been improved without losing a day in earliness. As now improved we regard it as the very best and most profitable extra early melon in existence for market gardeners and shippers, and nothing among the green fleshed varieties surpasses it for quality. The flesh is

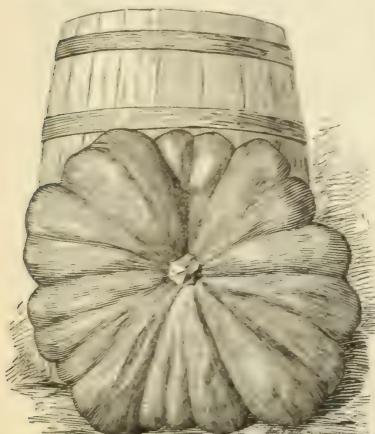
PAUL ROSE MELON.

A cross between Osage and the Netted Gem, made to get the thick salmon flesh of the Osage and the reduced size and beautiful netting of the Netted Gem, and which has been accomplished to perfection. So says the seedsman who is introducing it. The flesh is not "stringy" or "mealy" but has a sort of "cheesy" consistency, cutting smooth and yet tender when eaten; has a very small seed cavity; is almost solid. The meat or flesh of a melon 4½ inches in diameter frequently being almost two inches thick. It yields one-third less seed than the Netted Gem, but gains one-third in weight, owing to extra thickness of flesh.

The dark green rind is covered with a gray netting. Long keeper, vigorous grower; withstands drouth well; very prolific. Pkt. 5c; oz. 15c; 2 oz., 25c; ½ lb., 40c; lb., \$1.25.



PAUL ROSE MUSKMELON (from photograph



Livingston's Thanksgiving Pumpkin.

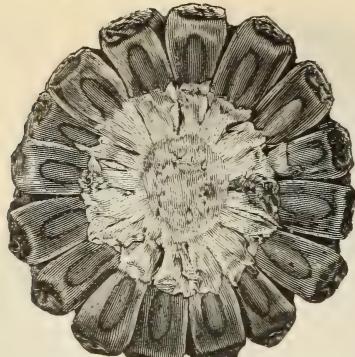
ENTIRELY DISTINCT.

Our illustration shows the distinct shape peculiar to this new Pumpkin. It is also a very thick meated variety. We have had specimens to weigh 55 pounds and only have 1½ ounces of seed in them, the flesh being in some places six inches thick. Average size is about same as the large Cheese Pumpkin, making it just right size for retailing, but the flesh is fully twice as thick. On account of this extra thickness of flesh the yield in pounds is double that of other kinds, as the fruit is produced in as great abundance if not more. The flesh is orange color, fine grain, sweet, and has the delicious pumpkin flavor essential to making of a first-class pumpkin pie. The name "Thanksgiving" was suggested by the custom of having pumpkin pie at the Thanksgiving dinner. Pkt., 10c; oz., 15c; 2 oz., 25c.

Mr. J. W. Welton, Cass County, Iowa, writes me Dec. 15, 1897: "They were the finest pumpkins I ever raised."

⋮ ⋮ SURPRISE ⋅ PEAS ⋮ ⋮

This new pea is the earliest of all the wrinkled sorts. A cross of "Earliest of All" with "American Wonder," retaining the hardiness of the former and the fine flavor of the latter. While it is a wrinkled sort, it will be found, when grown side by side with the hard extra early sorts, to be as early as any and earlier than some of them, including Alaska and Maud S. The vines grow 20 to 24 inches in height, and need no brush as support. They are loaded with well filled pods, not so large as the American Wonder, but much more numerous; while they are ready for the market several days before it. It is especially desirable because of its delicious sweetness. Price, pkt., 10c; ½ pt., 15c; pt. 25c; qt., 45c; pk., \$1.75.



Section of Ear of Pre-Historic Corn, showing depth of kernel. Engraved true to nature

PRE - HISTORIC CORN.

"THE GREATEST NOVELTY OF THE AGE."

The introducer speaks of it as follows: "After lying buried 3,000 years the seed of this corn is discovered and gives to the present generation the best connecting link with the people who inhabited our country in the dim, distant past."

The prevailing color is a beautiful dark bronze, gliding to a light bronze.

Mr. J. H. Beagley, Sibley, Ill., the well known corn specialist and publisher of the *Corn and Hog Journal*, writes as follows: "I have had this corn fully tested in various parts of the country, and find statements regarding its wonderfully luxuriant and prolific qualities fully verified. Ears weighing over a pound were grown in northern Missouri. It grew to perfection in northern Illinois, southern Indiana and in Missouri. Severe storms created great havoc with field corn generally the past season, but the Pre-Historic stood the gales and was uninjured, while others were laid flat on the ground. Its great root growth and strong brace roots, which in some cases have been noticed 26 inches above the soil, enable it to stand firm on the earth. There is no doubt that the old race of men who inhabited this country thousands of years ago were far advanced in agriculture."

This variety is no doubt worthy a trial, if for no other reason than for the oddity of its beautiful bronze colored grain. A little planted this year would yield plenty of seed for another year's planting. However, should you have a surplus for your own planting, it would no doubt be wanted by the neighbors to try. Price per packet, 10c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c, postpaid. Per peck, not prepaid, \$1.00.

SOJA BEAN.

AMERICAN COFFEE BERRY.

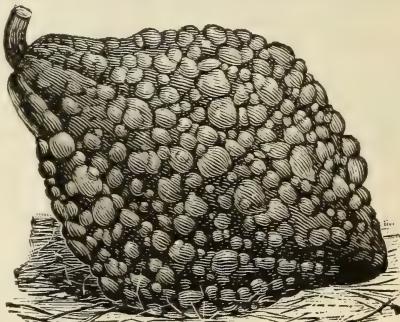
This valuable forage plant has attracted increasing attention yearly. It is one of the most nutritious of all vegetable products. It will produce a crop of twenty to thirty bushels per acre and is as easily grown as other beans. For pasturing or feeding as green fodder it is very valuable and nearly equal to clover for fertilizing. It also has a further notable use and that is, as a substitute for coffee; as when roasted it can hardly be told from the Brazilian Coffee. Price, large pkt., 9c; pt., 20c; qt., 35c, postpaid; pk., \$1.00; u., \$3.75.

FRINGED MAMMOTH HOLLYHOCK, "ALLEGHENY."

This grand new Hollyhock is an entire break from the old style garden favorite. The flowers are so different, that, but for the similar habit of the plant, it would not be taken for a Hollyhock. They are from 4 to 6 inches in diameter, ranging from semi-double to double, and the mammoth flowers are wonderfully formed, and so finely fringed and curled that they look as if made from the finest china silk, and compared with the old ones they have the look of a flower from Fairyland. The color varies from palest shell pink to ruby red. The plants grow from 5 to 6 feet high, of strong constitution, free from disease or rust. In free and persistent flowering it differs from the old style, coming into bloom in June and lasting until frost. Every bud, clear to the top of the plant, develops into a flower, and as the flowers mature they drop from the stem, so that the plants are always objects of beauty. With its robust growth, large, leafy branches, graceful and airy style of flowers, and as a perpetual bloomer, the Allegheny Hollyhock stands unique as simply the greatest novelty among flowers for years. Price per pkt., 10c; 3 for 25c.

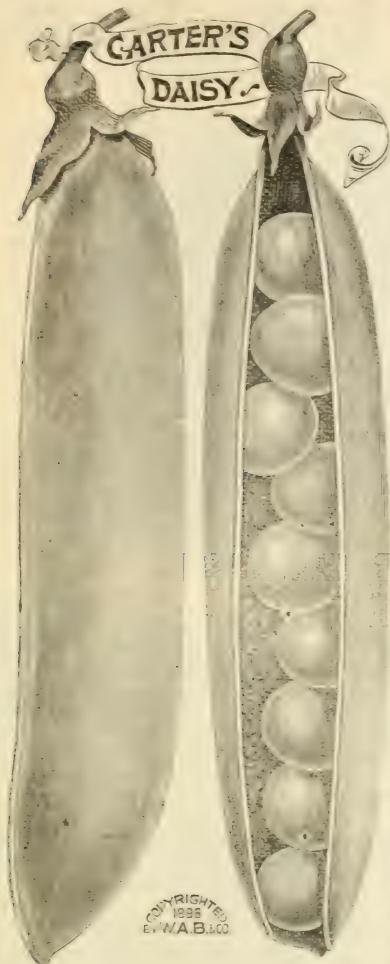
SQUASH.

WARTED & HUBBARD.

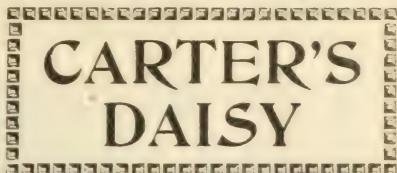


WARTED HUBBARD SQUASH.

An improved strain of the good old Hubbard Squash, having more prominent knots or warts on it, and of larger average size. It is as hard as flint, thereby indicating its superior quality and dryness; also that it is sure to carry and ship well. It sells at sight, is a dark green, almost black. Flesh very thick, highly colored, and of fine texture and flavor. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.



NEW SECOND EARLY PEA



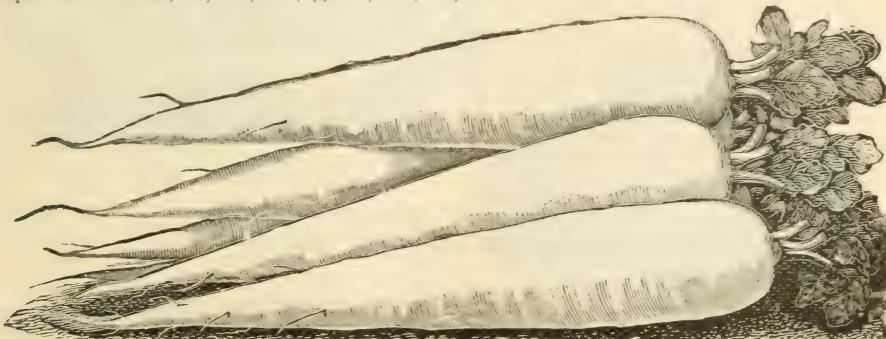
THE DAISY is a second-early of robust but remarkably even growth. The vines are from sixteen to eighteen inches high, needing no brush. The self-supporting, stout plants are fairly loaded with large, bright-green pods, which are always well filled. Each pod contains seven to nine large peas, of a light, bright green color, tender and well-flavored. The illustration here with was engraved natural size, from a photograph. The even growth and handsome appearance of the Daisy excites the admiration of all.

Of all the numerous crops and many pea trials examined the past season, the Daisy pleased and attracted us most, and we are sure that all who have this grand new Pea in the garden this season, will unite in praising it. Price, by mail, postpaid, pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 55c. By express qt., 40c; pk., \$1.75.

LIVINGSTON'S PEARL RADISH

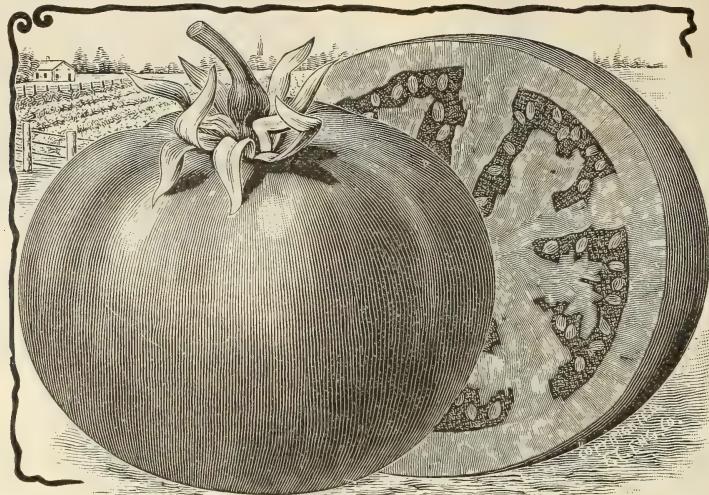
This new sort is a cross between Wood's Early Frame and the White Strasburg. A most distinguishing characteristic, is its rich, waxy appearance. The shape is one long sought for, and the most advantageous for bunching, being what might be called half stump rooted. (See cut.) The color is pearl white, and texture is very firm. About one week later than Wood's Early Frame, but after they are ready for marketing they remain in eatable condition fully two weeks longer before they show signs of going to seed, and do not become woody. Do not bear quite so close planting as

Wood's Early Frame, but their long standing after being ready for market, without running to seed or becoming woody or unfit for table use, more than makes up for wide planting. If grown properly they have a smaller top in forcing than when grown in the open field. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 90c.



LIVINGSTON'S PEARL RADISH.

Livingston's Honor Bright Tomato.



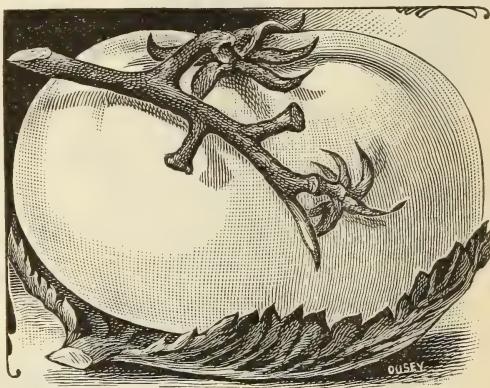
HONOR BRIGHT TOMATO.

A peculiar bright red variety when fully ripe, but it undergoes several changes of shade during the stages of ripening. First it is *light green*, then an attractive *waxy white*, changing to *rich bright red*. One of the most attractive and handsome varieties grown; well adapted for home or market use. It is a splendid shipping Tomato, because it is solid and keeps so long. It can be shipped in quite large crates or barrels if picked in the early stages of ripening, and they keep from one to four weeks stored in a cool place. The vines are vigorous, bearing from early to late, and having a greenish yellow foliage. The fruit is borne in clusters of three to five fruits each. Skin very tough—crack proof. Flesh tender and melting. Pkt., 10c; $\frac{1}{2}$ oz., 20c.

Livingston's New Tomato for 1898.

YELLOW PRINCE.

A New "Upright Tree" or "Dwarf" Variety, of an attractive lemon-yellow color, occasionally one is tinged with scarlet at the blossom end. Grows a rank, sturdy bush, full of fruits, of excellent quality, certainly none better for slicing or eating raw. As early and as large, if not larger than Dwarf Champion. Can be set out as close as 2x3 feet, even on rich soil, hence a heavy cropper. A decidedly good home sort and will take well with consumers. Sold only in packets this season. Extra select seed, pkt., 10c; 3 pkts., 25c.



YELLOW PRINCE TOMATO.

The above are two of our newest varieties of Tomatoes. One packet each of Honor Bright and Yellow Prince for 15c.

Notice Our List of BEE SUPPLIES on Last Page.

GENERAL LIST VEGETABLE SEEDS.

IN this General List of Vegetable Seeds I have only included varieties of undoubted merit, after thorough trials over a wide range of country. Others will be added from time to time, as rapidly as I am convinced of their value.

MARKET GARDENERS and others using large quantities of Seeds should write for my **Wholesale Price List**. State when writing whether you are a Gardener, Florist or Dealer.

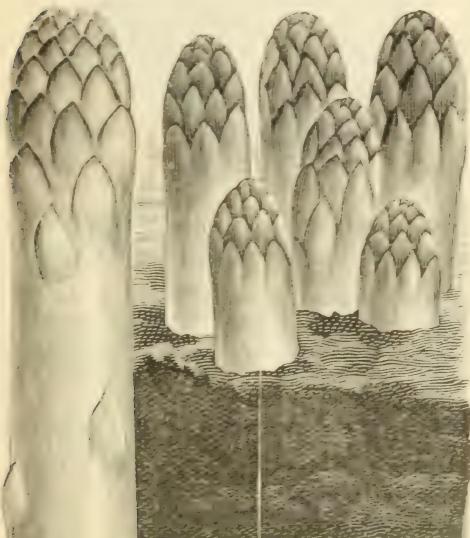
PACKET DISCOUNTS apply to Seeds put up in the small bags only, and not to Seeds offered by the ounce, quarter pound, pint, quart or large amounts, or to bulbs. I cannot include any of these larger quantities as the postage is so much greater.

| | |
|--|-------|
| Select 6 five-cent packets, Vegetable or Flower, for | \$.25 |
| Select 13 five-cent packets, Vegetable or Flower, for | .50 |
| Select \$1.30 worth of packets, Vegetable or Flower, for | 1.00 |
| Select \$2.75 worth of packets, Vegetable or Flower, for | 2.00 |

Get your neighbors or friends to go in with you, and thereby get the advantage of these liberal discounts. **Remember**, you get our large full sized packet with every order,



Please note that we pay postage to any part of the United States as prices for seeds quoted in this Catalogue (except where noted), and this will explain why our prices possibly seem higher than others, who do not include the postage, but ask you to remit extra amount for that purpose, and when this is added it frequently makes my prices the lowest.



ASPARAGUS.

Asparagus Culture—Giving best methods 50c
One ounce will sow 60 feet of drill and produce about 400 plants.
A year or so may be saved by using roots, as they come into bearing sooner.

Palmetto—Uniformly large and early. Pkt. 5c; oz. 7c; $\frac{1}{4}$ lb., 12c; lb., 40c. 2-year-old roots, per 100, 75c; per 1,000, \$6.00.

Conover's Colossal—Very productive. Pkt. 5c; oz. 7c; $\frac{1}{4}$ lb., 12c; lb., 40c. 2-year-old roots, per 100, 60c; per 1,000, \$5.00.

Barr's Mammoth White—Has stalks of large size and are almost white. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb., 15c; lb., 50c. 2-year-old roots, per 100, 75c; per 1,000, \$6.00.

BORECOLE OR KALE.

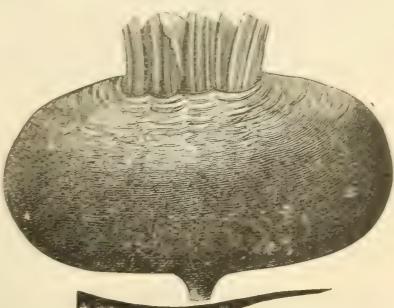
One ounce to 2,000 plants.

Siberian or Dwarf German—Very hardy. Sow in September and cover over with mulch as severe weather sets in. It is ready very early in spring. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb., 30c.

BEETS.

One ounce to 60 feet of drill, 5 to 6 pounds to the acre.

Crosby's Improved Egyptian—An extra early variety, especially adapted to market gardeners' use, as it comes into market about one week ahead of any other variety. It is of dark red skin and flesh, except occasionally a specimen that has a lighter shade. It is of semi-globular shape, not so round as Eclipse, and not so flat as Early Egyptian, but always of good shape, little or big. Very sweet and tender. The seed I offer was grown from selected stock. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb., 25c; lb., 80c.



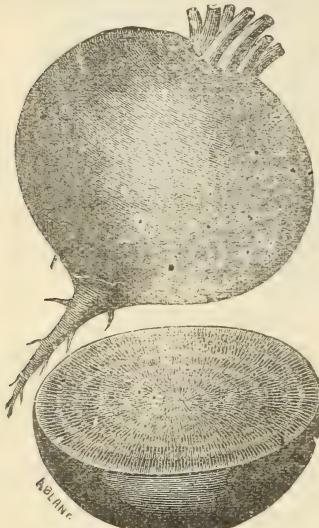
CROSBY'S IMPROVED EGYPTIAN.

BEETS—Continued.

Early Egyptian—An early, dark-red variety of good quality; of good shape through all stages of growth. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Early Eclipse—An early variety, having globe shaped roots; dark red skin and flesh; irregular in maturing. A good family sort, as they last well through the season. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Edmand's Improved Early Turnip—A splendid second early sort, having a small top; very smooth. Tender and sweet. Roots a dark red on outside, somewhat lighter on the inside. A good keeper. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.



DEWING'S IMPROVED BLOOD TURNIP.

Dewing's Improved Blood Turnip—Used more than any other variety in the United States for a second early and fall crop. Beautiful, smooth, round, dark red skin and flesh. Very sweet and tender. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Improved Long Smooth Blood—A very tender, sweet variety, having the darkest red flesh of any, but owing to its shape is not so desirable for market purposes. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Swiss Chard, Silver or Sea Kale—Grown entirely for greens; and the mid rib of the leaves, which are eaten same as celery. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c.

Lane's Imperial Sugar—A large and comparatively smooth variety, especially desirable for feeding cattle. oz., 5c; $\frac{1}{4}$ lb., 15c; lb., 35c; 5 lbs., by express or freight, charges not prepaid. \$1.25.

Bastian's Early Blood Turnip—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

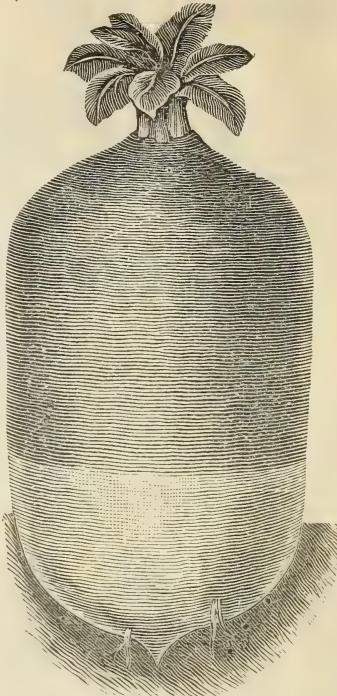
Early Bassano—Pkt., 5c; oz., 7c; lb., 15c; lb., 50c.

Early Blood Turnip—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

MANGEL WURZEL.

Improved Mammoth Prize Long Red—Also called Norbiton Giant and Jumbo Mangel. The heaviest cropping variety. It grows more than half out of the ground, and produces

immense crops of the very best stock food. Oz., 5c; $\frac{1}{4}$ lb., 10c; lb., 30c; 5 lbs., not prepaid, \$1.00.



GOLDEN TANKARD.

Yellow Globe—Especially adapted to shallow soils. Is of fine grain. Is easy to harvest and an excellent keeper. Oz., 5c; $\frac{1}{4}$ lb., 10c; lb., 30c; 5 lbs., not prepaid, \$1.00.

Golden Tankard—As its name indicates, this sort is of Tankard shape. Has beautiful yellow flesh, containing more sugar and less water than many varieties, hence exceedingly profitable as feed for dairy cattle; imparting a richness to both milk and butter alike. Oz., 5c; $\frac{1}{4}$ lb., 10c; lb., 30c; 5 lbs., not prepaid, \$1.00.

Either one of the above Mangel Wurzels, 10 lbs. for \$1.75; 20 lbs. for \$3.20.

...BEANS...**DWARF OR BUSH.**

One quart to 100 feet of drill, two bushels to the acre.

Quart and pint prices on Beans include postage; if to go by express at buyer's expense, deduct 15c per quart, or 8c per pint from the prices below.

Golden Wax—This well known variety has pods of good average length and slightly curved; yellow, stringless. A good yielder and a standard sort. Pkt., 5c; pt., 25c; qt., 40c; pk., \$1.10; bu., \$4.00.

Improved Rust Proof Golden Wax—The best strain of Golden Wax, being very prolific and hardy. The pods are straight, thick and long, of a beautiful golden color, and stringless. Pkt., 5c; pt., 25c; qt., 40c; pk., \$1.10; bu., \$4.00.



KIDNEY WAX.

Kidney Wax—Bush of medium size and very productive. Pods long, broad, flat, and entirely stringless; of a beautiful pearl shade. A good selling variety, and not excelled by any as a family sort. Pkt., 5c; pt., 25c; qt., 40c; pk., \$1.25; bu., \$4.50.

Yosemite Mammoth Wax—The monster pods of this new variety average 10 to 14 inches in length, are nearly all solid pulp and absolutely stringless, cooking tender and delicious; rich golden yellow; a vigorous grower, covering the ground with heavy foliage. A desirable variety. Pkt., 10c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c; pk., \$2.00.

German Black Wax—Very early. Will stand planting in cold ground. Pods round, very fleshy, waxy, yellow, stringless. Pkt., 5c; pt., 25c; qt., 40c; pk., \$1.10; bu., \$4.00.

Early Mohawk—Will stand planting in cold ground early in the spring, and on this account is valuable for the market gardener. The pods can be used when only half grown. Pods are green, flat and slightly curved. Not quite so tender as some. Pkt., 5c; pt., 20c; qt., 35c; pk., \$1.00.

Improved Round Pod Valentine—The finest of all Valentine strains. This variety is the main crop, green pod bean. It has a handsome, round, green, fleshy pod, entirely free from string. A good bearer and of the very best quality. Pkt., 5c; pt., 20c; qt., 35c; pk., \$1.10; bu., \$4.00.

Pink Eye Wax—Pkt., 5c; pt., 25c; qt., 40c.

Golden Eye Wax—Pkt., 5c; pt., 25c; qt., 40c.

White Wax—Pkt., 5c; pt., 25c; qt., 40c.

Scarlet Flageolet Wax—Pkt., 5c; pt., 25c; qt., 40c.

Ey. Long Yellow Six Weeks—Pkt., 5c; pt., 20c; qt., 35c.

Cala, or Mexican Tree—Pkt., 5c; pt., 20c; qt., 35c; pk., 75c; bu., \$2.75.

Dwarf Horticultural or Speckled Cranberry—The peculiarity of this sort is that the pods remain tender and fit for use even after the beans have attained almost full size. They can then be used as a shell or succotash bean, and even after they become dry they are a good soup bean. A splendid all round sort. Pod is green. Pkt., 5c; pt., 25c; qt., 40c; pk., \$1.25.

White Navy—Pkt., 5c; pt., 15c; qt., 30c; pk., 75c; bu., \$2.75.

White Marrowfat—Pkt., 5c; pt., 15c; qt., 30c; pk., 90c; bu., \$3.50.

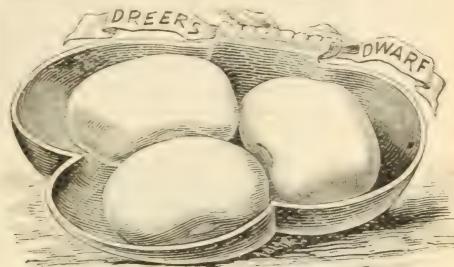
White Kidney—Pkt., 5c; pt., 15c; qt., 30c; pk., 90c; bu., \$3.00.

BUSH LIMA BEANS.

The Bush Limas should be planted 18 inches to 2 feet apart, as they form large bushes and must have room. Leave only two strong plants in a hill.

Henderson's Bush Lima—The surest cropper of the Bush Limas. It grows without the aid of stakes, in compact bush form, to eighteen inches high, and produces fine crops of Lima Beans, which can be as easily gathered as the common garden bush beans. Is earlier than any

of the climbing Limas, and produces a continuous crop until frost. Beans are about one-half the size of the old White Lima Pole variety. Pkt., 5c; pt., 25c; qt., 45c; pk., \$1.50.



Dreer's Bush Lima—The bush form of the Dreer Pole Lima. The beans are exactly the same size, and, what is more important, they have retained the extra fine quality and sweetness of that good old sort. The pods contain 4 and 5 beans, and, of course, an easy and rapid sheller. Pkt., 10c; pt., 25c; qt., 45c; pk., \$1.75.

Burpee's Bush Lima—This sort has the largest beans of any, 2 and 3 to the pod, of fine quality. The bush grows large and must have ample room. Pkt., 10c; pt., 25c; qt., 45c; pk., \$1.75.

POLE BEANS.

Don't plant Pole Beans until the ground is thoroughly warm. One quart makes from 100 to 200 hills, according to the size of beans. 10 to 12 quarts will plant an acre.

Red Speckled Cut Short or Corn Hill—Almost every one knows the old Cut Short Bean. They are always good. Pods round and tender. A good kind to plant in the corn hill, but can be planted without any support and produce a good crop. Give them plenty of room. Pkt., 10c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c.

Lazy Wife's—The pods grow from 6 to 8 inches long, entirely stringless, and of a rich, buttery flavor when cooked. They are a boon to the busy housewife, as they have a habit of growing in great bunches, hence easily and quickly picked. The pods retain their tender, rich flavor until nearly ripe; a good white shell bean for winter use also. Pkt., 10c; $\frac{1}{2}$ pt., 15c; pt., 30c; qt., 55c.

Early Dutch Case Knife—One of the earliest of the pole varieties, white seeds, is good green or dry, very productive. A good bean for planting among corn. Pkt., 5c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c.

Scarlet Runner—An ornamental sort, used same as Morning Glories. Pkt., 5c; $\frac{1}{2}$ pt., 15c; pt., 25c.

Red Giant Wax—Pkt., 5c; $\frac{1}{2}$ pt., 15c; pt., 30c.

London Horticultural or Speckled Cranberry—A round, speckled bean, tender for snap beans and excellent for shelling. All we have said about the Dwarf Horticultural Bean applies to this sort, except that this one needs something to climb up on. Pkt., 5c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c; pk., \$1.25.

LIMA POLE BEANS.

Extra Early Jersey—For general planting, particularly at the north, this is the best variety. Vines vigorous and very productive; leaves large, broad, flat; beans large, flat; white. Pkt., 5c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c.

Large White—Pods broad and rough. Seeds large, broad and white. Pkt., 5c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c.

Dreer's Improved—Smaller seeds than the preceding, but more hardy and more productive. Best flavored of any. Pkt., 5c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c.

Livingston's Reliable Cabbage Seed.

IT is very important to have Cabbage Seeds right, as varieties of the poorest quality will germinate and produce as fine plants as any; so that it is impossible to tell from their appearance what the crop is going to turn out until it is too late to grow anything else, and you are out for seed, your time and the use of the land. We have a man who has had a great many years' experience in Cabbage Seed growing to grow for us, and he is located at a point especially adapted to the business. There are only a few places where the best seed can be grown.

CABBAGES: How to Grow Them—By J. H. Gregory. Full details on every point, 30c

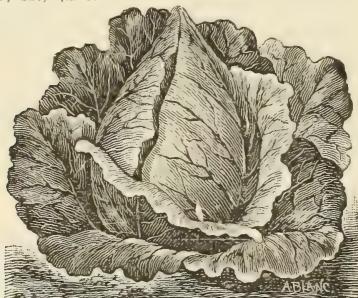


EARLIEST ETAMPES.

One ounce of seed from 1,000 to 2,000 plants, and sows an area of about 40 square feet.

Earliest Etampes—The earliest variety we have; and while not so solid as the Early Wakefield, yet for the market gardener it has value on account of coming into use about a week earlier than any other kind, and will sell well, as there is no better variety to compete with it. We do not recommend it for the kitchen garden. The heads are oblong and of medium size. Pkt., 5c; oz., 12c; 1/4 lb., 35c; lb., \$1.25.

Early Winningsstadt—This variety is about a week later than the Wakefield, having a pointed and an exceedingly solid head. It is so solid the worms seem to look on it as too hard a job to tackle, and so pass it by for the more loosely growing sorts. The heads are very pointed and crisp. Pkt., 5c; oz., 12c; 1/4 lb., 35c; lb., \$1.25.



EARLY JERSEY WAKEFIELD.

Early Jersey Wakefield—The best of the early sorts. Always forming a good solid head. Our strain of it produces a head to almost every plant. We can heartily recommend it for both market and kitchen gardens as the best of the early pointed headed varieties. It is of fine grain and quality. Can be grown closely, as the plants do not require much room. Pkt., 5c; oz., 15c; 1/4 lb., 50c; lb., \$1.75.

Large Early York—An old, well known, early sort. Pkt., 5c; oz., 12c.

Early Dwarf Flat Dutch—A very even heading sort, immediately following the H.'s Early Summer, and one of the very best summer varieties. It will withstand heat and form a

very solid head. Pkt., 5c; oz., 12c; 1/4 lb., 35c; lb., \$1.25.

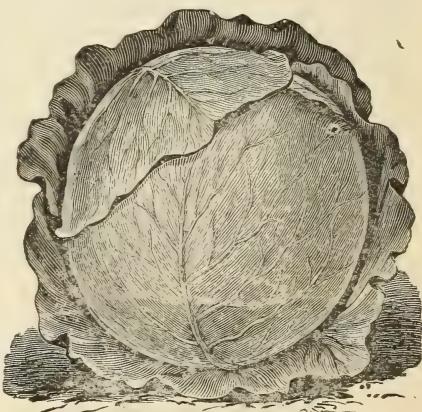


HENDERSON'S EARLY SUMMER.

Henderson's Early Summer—The Early Summer is the first one of the flat heading sorts to come into market, and it is preferred by many on account of its shape. It is of good size and very fine grained. An excellent early variety, and by successive plantings it can be had from spring till fall. A good keeper. Can be planted closely on account of few outside leaves. Pkt., 5c; oz., 15c; 1/4 lb., 50c; lb., \$1.75.

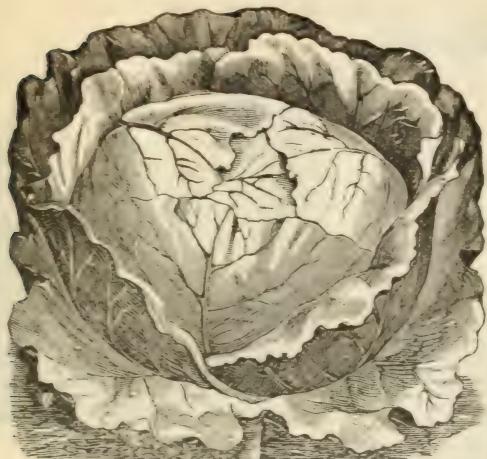
Early Drumhead—A variety very similar to Early Dwarf Flat Dutch. Pkt., 5c; oz., 15c.

All Seasons—An excellent sort for the family or small gardener who wants to make one cabbage patch do for "all season." The heads do not all form at one time, and will stand the hot sun and dry weather fine. They are almost round and very sure to head. Also a good keeper. Pkt., 5c; oz., 12c; 1/4 lb., 35c; lb., \$1.25.



ALL-HEAD EARLY.

All-Head Early—A thoroughbred, being of uniform size, shape and color, and one that heads every time—almost. The deep flat heads are very solid and of fine quality. It is a compact grower, hence can be planted as close as eighteen inches apart in the row. By sowing seed late it is an excellent winter variety. Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.50.



SHORT STEM DRUMHEAD.

Short Stem Drumhead—Heads are very large, extra hard, solid, round, flattened on the top, uniform in size and shape, and are always of the finest quality and a sure header. Cabbage growers in the South, where so many varieties fail to head, will do well to plant the Short Stem Drumhead for a sure crop. It has a very short stem and grows very compactly, the leaves all turning in to form the head, with very few loose leaves, thus allowing it to be set close together. Pkt., 5c; oz., 12c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

Livingston's Premium Flat Dutch—For the winter market it has no superior. Heads are large and very solid; they open white, crisp and tender. It is a fall and winter variety, and with good cultivation is sure to head. Grown almost exclusively by market men on account of its good shipping qualities. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.50.

Blood Red Dutch—Pkt., 5c; oz., 12c; $\frac{1}{4}$ lb., 40c.

Chase's Excelsior—We have made a specialty of this Cabbage for many years and never sold anything that gave better satisfaction. It is a medium early variety, following Early Summer, but with heads almost double the size. It can be planted as a second crop twenty days later than the Flat Dutch, and still mature almost as many pounds to the acre. It is very uniform in type, sure to head, and is exceedingly solid. Few varieties will produce so many well formed, large, solid heads from the same number of plants. Pkt., 5c; oz., 12c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.



FOTTLER'S DRUMHEAD.

Fottler's Early Drumhead, or Short Stem Brunswick—This variety is a rapid grower, has large, solid heads, and but few outside leaves. If planted early, is ready for use in July or August; planted late, is a choice winter sort. Pkt., 5c; oz., 12c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

Mammoth Red Rock—This is by far the best, largest and surest heading red cabbage ever introduced. The head is large, round, very solid, and of a deep red color. Pkt., 5c; $\frac{1}{2}$ oz., 15c; oz., 25c; $\frac{1}{4}$ lb., 60c.

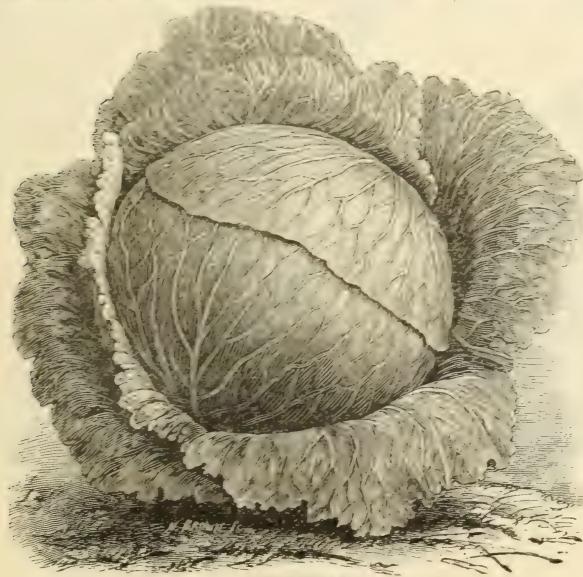
Drumhead Savoy—A large late sort, having leaves that are beautifully crimped. A good winter sort. Pkt., 5c; oz., 12c.

Surehead—This variety is pronounced by thousands of growers the surest heading and best main crop cabbage. The demand from all parts of America for this famous cabbage is steadily increasing. No other cabbage has elicited so many voluntary expressions of praise. Pkt., 5c; oz., 12c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

Luxemburg, or Hard Head—It retains its fine green color until late in spring and is often sold for new cabbage after it has been covered up all winter. A hard heading, fine looking, extra keeping variety, best winter sort for home use and for the market. Pkt., 5c; oz., 12c; $\frac{1}{4}$ lb., 35c; lb., \$2.75.

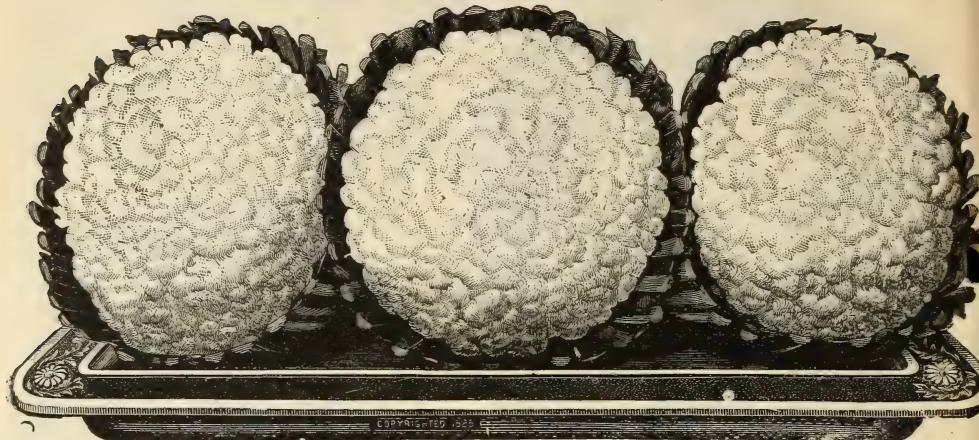
Large Drumhead—A large, loose heading sort that is good to bury for winter use. It heads up and blanches in the pit, and comes out in good shape for market. Pkt., 5c; oz., 12c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

Marblehead Mammoth—The largest variety known. Forms a large, loose head. A good one to grow for exhibition. Pkt., 5c; oz., 20c.



SUREHEAD.

• • • CALIFLOWER. • • •



Cauliflowers, and How to Grow Them—20c.

One ounce gives 1,000 to 2,000 plants.

Livingston's Earliest—This is certainly the best type of cauliflower in the market. It is unexcelled by any variety for earliness. If planted March 1st, large heads will be produced in June, and scarcely a single head will fail to form. It does equally well for late planting. Our stock cannot be excelled. Pkt., 25c; $\frac{1}{4}$ oz., 90c; oz., \$3.50; $\frac{1}{4}$ lb., \$12.00.

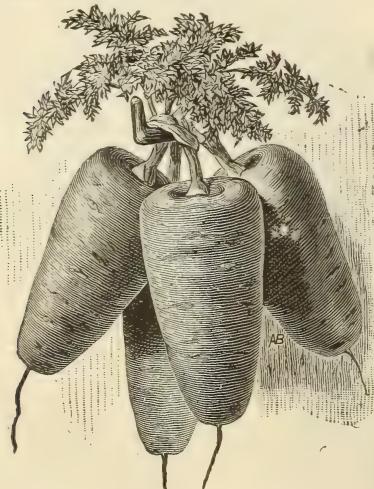
Early Snowball—Pkt., 15c; oz., \$2.50.

Extra Early Dwarf Erfurt—Scarcely a plant fails to produce a head. It is of dwarf habit, compact growth, short outside leaves, and can be planted 20 inches apart each way. Our stock is of the best grade. Pkt., 20c; $\frac{1}{4}$ oz., 65c; oz., \$2.25; $\frac{1}{4}$ lb., \$7.50.

CARROT.

One ounce sows 150 feet of row. Four lbs. sow an acre.

Gregory on Carrots, Mangel Wurzel, etc.—How to Raise, Keep and Feed Them—30c.



CHANTENAY HALF LONG SCARLET.

WRITE FOR SPECIAL PRICES ON FIVE POUNDS MORE OR OF CARROT SEED.

Early Short Scarlet Horn—Is stump rooted, second in size; fine for forcing; rich color and good flavor. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Chantenay Half Long Scarlet—A stump-rooted variety, tapering slightly, but uniformly smooth, of a deep orange red color; medium sized top, with small neck; medium early and can be pulled by one hand. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

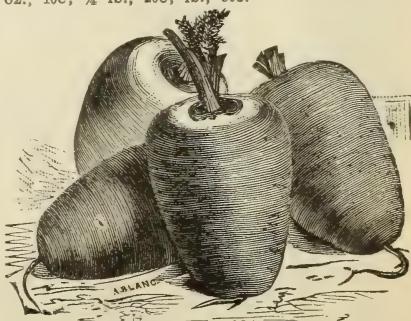
Oxheart, or Gherande—

This carrot grows three to four inches in diameter at the top. It is very fine quality for table use. Where other sorts require digging, Oxheart can be easily pulled. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Danvers—One of the most productive and best for field culture. Tops medium, roots dark colored, large, but of medium length, tapering abruptly at the point; flesh deep orange with yellow center, sweet and tender. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Large White Belgian—Very productive; grown almost entirely for stock. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c.; lb., 50c.

Improved Long Orange—Standard late kind, deep orange color; yields well. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 50c.



OXHEART.

CELERY.

One ounce of seed will produce 800 to 1,000 plants.

Celery for Profit—The Latest Method Described—30c.



WHITE PLUME.

White Plume—A handsome, crisp sort, of easy cultivation, as it is almost self-blanching, requiring for this purpose but a single hoeing up of the earth about the stalks. The flavor is excellent. It is one of the best and earliest varieties; should be used early, as it is not so good a keeper as some. It must not be allowed to freeze. Pkt., 5c; $\frac{1}{2}$ oz., 10c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00.

Golden Heart—A distinct variety of sturdy dwarf habit. It is solid and of fine nutty flavor. When blanched, the heart, which is large and full, is of a light yellow, making it an exceedingly showy and desirable variety for either market or private use. It is a good keeper, and if frosted in the fall before harvesting it is only injured so far as frosted, while with some sorts the whole stalk is ruined. Good for general crop. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 40c; lb., \$1.50.

Boston Market—Distinct in being of branching habit. Is white, of good flavor, very solid, not injured by frost, a good keeper. Pkt., 5c; $\frac{1}{2}$ oz., 10c; oz., 20c; $\frac{1}{4}$ lb., 40c; lb., \$1.50.

Golden Self Blanching—As its name indicates, it is self blanching, requiring only a slight banking up to render it crisp and nice; also to give the heart that rich golden color peculiar to this variety. Desirable for fall and early winter use. A vase full of this and White Plume is very beautiful—really an exquisite ornament to the table. Pkt., 5c; oz., 15c.

Giant Pascal—Of a beautiful golden color; has thick, solid, crisp stalks. A very rich nutty flavor. Very large, never stringy, a fine keeper and shipper. Requires only banking enough to hold it in an upright position, when it blanches and becomes as "brittle as a pipe stem." Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

White Solid—Pkt., 5c; $\frac{1}{2}$ oz., 10c; oz., 15c.

Early Arlington—Pkt., 5c; $\frac{1}{2}$ oz., 10c; oz., 15c.

H.'s Half Dwarf White—Pkt., 5c; $\frac{1}{2}$ oz., 10c; oz., 15c.

New Rose—Pkt., 5c; $\frac{1}{2}$ oz., 15c; oz., 25c.

★SWEET CORN★

— One quart plants 200 to 300 hills. 8 to 10 quarts for an acre.

Quart and pint prices on Corn include postage; if to go by express, at buyer's expense, deduct at the rate of 10c per quart. Half-pint package is right size for small family. They are supplied at pint rates.

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Extra Early Cory—Very early. The first sweet corn to come into bearing; small ear, broad grains, and when ripe are inclined to be

red; cob is red. Pkt., 5c; pt., 20c; qt., 35c; pk., 80c; bu., \$3.00.

CELERIAC,

(TURNIP ROOTED CELERY.

Differing from other kinds of celery in that the root is used in place of the stalks. Nice for flavoring soups, stews, etc.

Turnip Rooted—Pkt., 5c; oz., 20c.

Giant Prague—Apple shape. Pkt., 5c; oz., 20c.

CRESS.

A well known pungent salad; can be used alone or with lettuce.

Curled Garden Cress—Requires to be sown thickly (covering very lightly) at frequent intervals, to keep up a succession, as it soon runs to seed. Very fine; may be cut two or three times. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Water Cress—This is a well known, hardy, perennial, aquatic plant. It is easily grown by planting along the margins of ponds and streams, where it increases rapidly. Pkt., 10c; $\frac{1}{2}$ oz., 20c; oz., 35c.

SWEET CORN—(Continued.)

Extra Early White Cory—Similar in every respect to the Extra Early Cory, except in color of grain and cob, which in this one are both white, hence considered an improvement. Pkt., 5c; pt., 20c; qt., 35c; pk., 80c; bu., \$3.00.

Early Minnesota—Immediately follows the Cory corn in time of ripening and is a little larger. Has a white cob and grain; the one we always advise for first crop in the kitchen garden. Pkt., 5c; pt., 15c; qt., 30c; pk., 75c; bu., \$2.50.

Perry's Hybrid—Almost as early as Minnesota, but a much larger ear. Kernels large and very sweet. When ripe they are red in color. Pkt., 5c; pt., 15c; qt., 30c; pk., 75c; bu., \$2.50.

Shaker's Early—A very fine, large, pure white sort coming quite early. Good to follow a crop of Minnesota. Very productive, sometimes having two and three ears to the stalk. Pkt., 5c; pt., 15c; qt., 30c; pk., 60c; bu., \$2.25.

Hickox—A very fine large eared sort, coming a week earlier than Stowell's Evergreen. Used in large quantities by canners, because of its beautiful white ears, deep grains and sweetness. Pkt., 5c; pt., 15c; qt., 25c; pk., 50c; bu., \$1.75.

Stowell's Evergreen—The old-fashioned evergreen sort that almost everyone has grown; large, pure white ear; cob white and grain very deep. We have a selected stock. Pkt., 5c; pt., 15c; qt., 25c; pk., 50c; bu., \$1.75.

Mammoth—The largest and latest of all varieties. Matures about the same time as the common field corn, and is even larger than some of them. It has a white ear and cob. Pkt., 5c; pt., 15c; qt., 30c; pk., 50c; bu., \$1.75.

Fodder Sweet Corn—Nothing seems to be more highly relished by stock than sweet corn fodder, and nothing will do them more good. Sow thick and cut when quite green. Pk., 30c; bu., \$1.00.

Burlington Hybrid—Pkt., 5c; pt., 15c; qt., 25c.
Country Gentleman—Pkt., 5c; pt., 15c; qt., 30c.

Crosby's Early—Pkt., 5c; pt., 15c; qt., 25c.

Egyptian—Pkt., 5c; pt., 15c; qt., 25c.

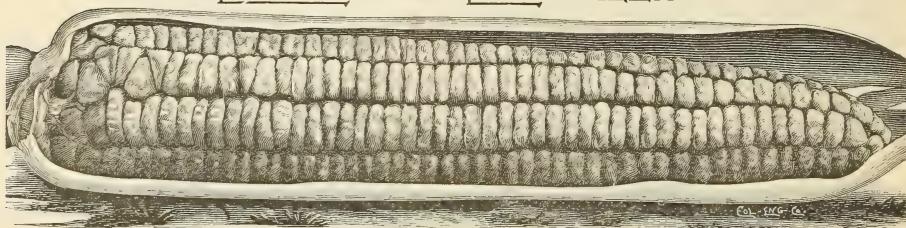
Black Mexican—Pkt., 5c; pt., 15c; qt., 25c.



EARLY CHAMPION.

Early Champion—Of all the Early Sweet Corn this is the largest. Comes but a few days later than the small eared sorts. A favorite with market gardeners. The ears are medium size; fine appearance; kernels tender and sweet, cob white. Pkt., 5c; pt., 20c; qt., 35c; pk., 75c; bu., \$2.50.

• LIVINGSTON'S EVERGREEN •



Livingston's Evergreen—An old variety that has been in our family for upwards of 40 years. My father always selected and saved good seed stock of it. It is today as good or better than ever. Some of our gardener friends say that they have worked up a trade on it against all competitors, principally on account of its decided sweetness. No one ever complains of its size. In time of ripening it is second early. We have grown it ready for the table just twelve days later than the Extra Early Cory, when planted at the same time. For market purposes it should not be planted over two grains in a hill, as it 'suckers out' and will become too thick if not gone over and sucklers pulled off. This fact, however, makes it one of the very best of varieties for fodder purposes. It is a good variety for all purposes and especially for family gardens, as it remains good for a long time. Pkt., 5c; pt., 20c; qt., 35c; pk., 60c; bu., \$2.00.

Special Prices on Sweet Corn in Large Quantities. Please Write.

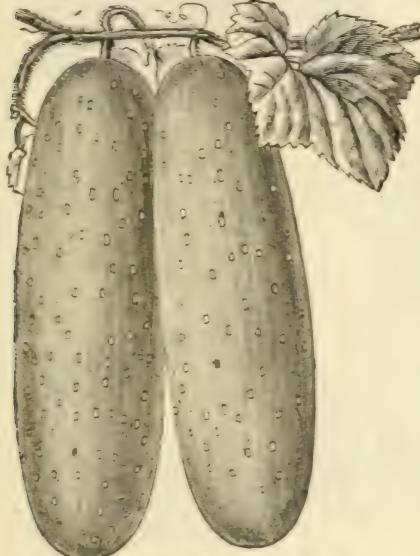
CUCUMBER.

One ounce for fifty hills. 1 to 2 pounds for an acre.

The striped bug cannot destroy your crop of cucumbers if seed is sown in rows. Just before vines start to run, thin plants to hills about four feet apart.

Slug Shot is the best powder to fight bugs with. 5 pound package, 35c; 10 pound package, 60c.

Livingston's Emerald—See Novelty List.



WHITE SPINE.

Improved White Spine—The old standard sort, and used today as much or more than any other sort. It is alike good for pickling or slicing, of good shape at all stages of its growth, of beautiful green color when of pickling size. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 40c.

Peerless White Spine—One of the finest strains of White Spine. Fruit of large size, straight, productive; skin deep green, holding color until maturity. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Cool and Crisp—Skin very dark green; flesh crisp and tender; good for pickling or slicing; quite early. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c.

Livingston's Medium Green—Worthy a place among the very best of pickle sorts. Always of uniform size and color. Very productive, whether a wet or dry season. Many of the so-called new varieties might well take a back seat for this one. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Hill's Forcing White Spine—

Originated near Boston, and for years Mr. Hill, the originator, had the trade all his own way in that market, as his cucumbers were ready for market before others, and were of such perfect form, so remarkably even, and of that desirable dark green color. Grows more com-

pact about the hill than most other kinds, and being early is an excellent variety to grow for market. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Livingston's Evergreen.

It is generally admitted to be the finest pickle sort, possessing, as it does, all the necessary requirements for producing pickles of even size, just as large at one end as the other; no difference if it is a dry season, which usually results with some varieties, in producing pickles with necks at the stem end, rendering them almost useless. It is very hardy and bears until frost, if the large seed cucumbers are cut off. It is very prolific of nice crisp fruits, of a beautiful green shade. It is a splendid slicing variety, also. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 65c.

Improved Long Green—A standard all-around variety. Excellent for slicing; quality crisp and delicious. The smaller fruits are used for pickling. Larger ones can be allowed to ripen for preserving. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 40c.

Serpent or Snake Cucumber.



A remarkable and very interesting curiosity. The cucumbers grow curled up like a snake, with the head protruding, and sometimes are several feet in length. The illustration represents their shape; quality fair. Grown more for curiosity and exhibition than table use. Pkt., 10c.

Japanese Climbing—A climbing sort, with extra strong tendrils. Saves room in small gardens by growing on trellis; very prolific; flesh thick and tender. Pkt., 5c; oz., 15c.

Rollinson's Telegraph (Astro)—A variety that is only grown in hot beds and greenhouses; 18 inches long; bright green, perfectly smooth. Pkt., 15c.

Small Gherkin—(Burr Cucumber)—Is esteemed highly for bottling. It is small in size, in shape like a chestnut burr. Quality fine. Pkt. 5c; oz., 15c.

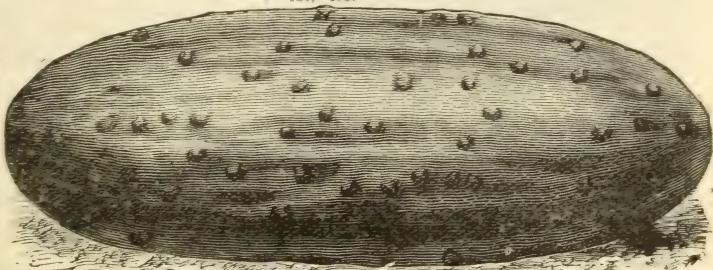
Extra Early Russian—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Early Frame—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Early Green Cluster—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Green Prolific—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 40c.

Chicago Pickle—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 40c.



HILL'S FORCING WHITE SPINE.

DANDELION.

One of the earliest and most healthful spring salads or greens. It is best when blanched. The roots can be dried, roasted and used as a substitute for coffee. Sow early in rows 18 inches apart, and thin out the plant so as to leave standing 6 inches. Cultivate, and do not begin using until the following spring.

Improved Large Leaved—A new, thick leaved variety, of great productiveness and fine flavor. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c.

ENDIVE.—(Winter Lettuce.)

One ounce of seed sows 150 feet of drill.

Green Curled—It is the hardiest variety, with beautifully curled green leaves, which blanch white; very crisp and tender. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Broad Leaved Batavian—Forms large heads of broad, thick leaves. Preferred for flavoring soups, and is also excellent blanched to form a salad. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

early, of beautiful glossy purple, and last, but

...EGG PLANT....

One ounce of seed makes 1,000 plants.



IMPROVED LARGE PURPLE.

Improved Large Thornless Purple—This entirely distinct strain has been produced by careful selection from the New York Purple. The objects aimed at were: Fruit of large size, early, of beautiful glossy purple and last, but not least, to do away with the thorns which are so injurious both to the hands when gathering the fruits and to the fruit itself when shipping. The plant is of strong, branching, vigorous habit. Fruit of large size, of a very rich, deep purple hue, flesh white, and of delicious flavor when properly cooked. We are confident this strain of large purple egg plant cannot be improved upon. Pkt., 5c; $\frac{1}{2}$ oz., 20c; oz., 35c; $\frac{1}{4}$ lb., \$1.00.

New Pearl White—Very much the same in quality, size, shape, productiveness and manner of growth as the Large Purple, but differing in color. It is of a pure, creamy white, with slight shading of green near the stem. Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 45c.

Mr. J. N. Vawter, Butler county, Neb., writes, April 20, 1898: "The strawberry plants arrived in fine condition; they are growing nicely. I am well pleased with them."

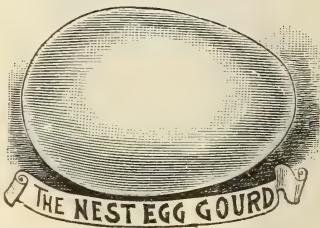
• GARLIC •



GARLIC BULBS.

Prepare ground same as for onions, and plant in early spring, in drills eight inches apart, four inches in the rows, covering two inches deep. Esteemed for flavoring soups and stews. We can supply the bulbs only. Oz., 5c; $\frac{1}{4}$ lb., 15c; lb., 40c; express (not prepaid) 5 lbs. for \$1.00.

GOURDS.



Nest Egg—(Japanese Nest Egg)—These exactly resemble in color, shape and size a hen's egg; they do not crack, and are uninjured by cold or wet; they make the best nest eggs. As the plant is a rapid growing climber, it is very useful for covering screens, etc., being quite ornamental. Pkt., 5c; oz., 25c.

Dipper—Can be used for dippers; they will hold from a pint to a quart and a half, the handles being from 6 to 18 inches long. When growing on the ground the handles will be curved, while if grown on trellis or tree the weight will cause them to grow straight. Very convenient for hot liquids, as the handle does not heat through rapidly. They are easily prepared and last for years. Pkt., 5c; oz., 15c.

Dishcloth, or Luffa—A natural dishcloth, and a most admirable one, is furnished by the peculiar lining of this fruit, which is sponge-like, porous, very tough, elastic and durable. It also makes an excellent substitute for a sponge when bathing. The fruit grows about two feet in length, and the vine very ornamental, producing clusters of large yellow blossoms, in pleasing contrast with the silvery shaded, dark green foliage. In the north this variety should be started in a hot bed. Pkt., 5c; oz., 25c.

Sugar Trough, or Sap Bucket—This variety grows to a very large size, holding from 4 to 10 gallons each, having hard, thick shells, which are very strong, but light and durable, lasting for many years. They are used for a great variety of purposes, such as buckets, baskets, soap and salt dishes, nest boxes, etc. Pkt., 5c; oz., 15c.

Ornamental Sorts—Many beautiful shapes and colors. Pkt., 5c.

Gourd Collection—One packet each of the above gourds only 15 cents. Try a gourd collection.

• HERBS •



Herbs delight in a rich, mellow soil. Sow the seeds early in the spring, in shallow drills, one foot apart. When up a few inches thin to proper distances. Care should be taken to harvest them on a dry day, just before they come into full blossom; dry quickly in the shade, pack closely in dry boxes to exclude the air entirely.

| | |
|---------------------|----------------------------------|
| Anise..... | Pkt., 5c; oz., 10c. |
| Balsam Apple..... | Pkt., 5c; oz., 10c. |
| Basil, Sweet..... | Pkt., 5c; oz., 15c. |
| Borage..... | Pkt., 5c; oz., 20c. |
| Caraway..... | Pkt., 5c; oz., 10c. |
| Coriander..... | Pkt., 5c; oz., 10c. |
| Dill..... | Pkt., 5c; oz., 10c. |
| Fennel, Sweet..... | Pkt., 5c; oz., 10c. |
| Hoarhound..... | Pkt., 5c; oz., 25c. |
| Lavender..... | Pkt., 5c; oz., 20c. |
| Rosemary..... | Pkt., 5c; oz., 40c. |
| Rue..... | Pkt., 5c; oz., 20c. |
| Sweet Marjoram..... | Pkt., 5c; oz., 20c. |
| Saffron..... | Pkt., 5c; oz., 20c. |
| Sage..... | Pkt., 5c; oz., 25c; lb., \$2.00. |
| Savory Summer..... | Pkt., 5c; oz., 10c. |
| Thyme..... | Pkt., 5c; oz., 40c. |
| Wormwood..... | Pkt., 10c. |

KOHL RABI.

When young and tender they are fine for table use. Better, as a rule, than Early Turnips—sweeter and more tender. For early use sow in hot-bed and transplant like cabbage. For winter use sow about middle of June, in rows eighteen inches apart, thinning to three inches in the row. One ounce of seed for 1,500 plants.

Early White Vienna

—Flesh white and tender. Best for forcing for early market. Pkt., 5c; $\frac{1}{2}$ oz., 15c; oz., 20c.

Early Purple Vienna

—A little later than the white, and of purple color. Pkt., 5c; $\frac{1}{2}$ oz., 15c; oz., 25c.



KOHL RABI.

KALE. (SEE BORECOLE.)



Plant the seeds in April, in drills one foot apart and one inch deep. When six or eight inches high remove plants to deep, rich soil, setting them in rows 12 to 18 inches apart. Plant as deep as possible, and during growth draw the earth to them to blanch the stems.

One ounce of seed to 1,500 plants.

Large American Flag—Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

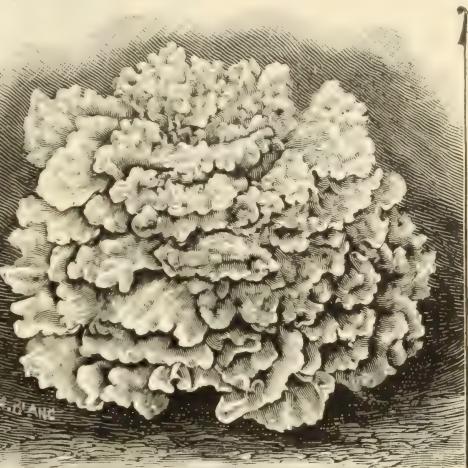
Large Musselburg—Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

LETTUCE.

One ounce of seed to 2,000 plants.

Livingston's Bon Ton—See novelty pages. Pkt., 10c.

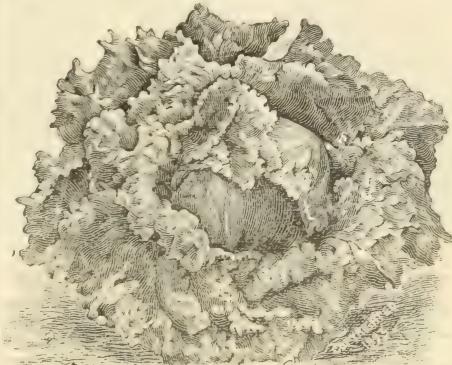
Early Curled Simpson—Forms a mass of curly, oblong leaves, light green in color; good for first early crop. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.



BLACK SEEDED SIMPSON.

Black Seed Simpson—Forms a large mass of beautiful, crisp, curly leaves, very light in color; one of the best for growing under glass. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., \$1.00.

Denver Market—An early variety of head lettuce, good for use in the greenhouse or open ground. It forms a large solid head of light green color. The leaves are beautifully wrinkled and are very crisp and tender. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c.



THE ICEBERG.

The Iceberg—A quick growing head variety, having incurving leaves, which protect the heads from the sun, making it a good variety for summer as well as spring use. The little indentations in the leaves which retain drops of dew gives it a freshness not attained by most varieties. A very crisp, long standing sort. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.

LETTUCE—Continued.

Crisp as Ice—Bronze Head.

The glossy leaves are thick and nicely crimped like a fine curled Savoy Cabbage; outside they are beautifully variegated with bronze and green. The heads, when cut open, have a rich creamy yellow heart. An exceedingly superior family and home market lettuce, but on account of its extreme tenderness it is unfit for shipping or handling in large bulk. Pkt., 5c; $\frac{1}{2}$ oz., 20c.

Bronze Head—Especially desirable for home gardens. Too tender for market unless delivered direct to the consumer. A large plant, deep green, washed with red, giving it a bronze appearance. Forms a dense mass of leaves, which are frilled at the edges and blistered. Very crisp, tender, and good flavored. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.



IMPROVED HANSON.

Improved Hanson—The heads grow to a remarkable size and are deliciously sweet, tender and crisp, even to the outer leaves. It is free from any unpleasant or bitter taste; not recommended for forcing, but for outdoor cultivation rarely equaled. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 85c.

Early Tannisball—(Black Seed)—Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.

Grand Rapids—Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.

White Summer Cabbage—Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.

Defiance Summer—Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.

MUSTARD.

Southern Giant Curled—(New Chinese)—Highly esteemed in the South, where seed is sown in fall. Plants used very early in the spring as a salad. It produces plants about two feet high, and forms enormous bunches. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 50c.

White English—Mild and tender when young; seed light yellow. Oz., 5c; $\frac{1}{4}$ lb., 15c; lb., 35c.

Brown or Black—Oz., 5c; $\frac{1}{4}$ lb., 10c; lb., 25c.

OKRA, OR GUMBO.

One ounce sows thirty feet of drill.

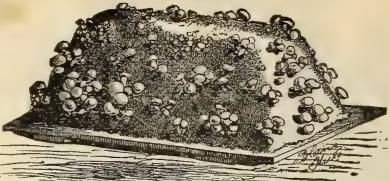
Tall—Five or six feet; very productive. Pkt., 5c; oz., 8c; $\frac{1}{4}$ lb., 20c.

Dwarf—Early and abundant bearer. Pkt., 5c; oz., 8c; $\frac{1}{4}$ lb., 20c.

White Velvet—Round, smooth pods, unlike other sorts which have ridged pods. This variety has the largest sized pods of any, and are not prickly. Produces in great abundance. Pkt., 5c; oz., 8c; $\frac{1}{4}$ lb., 20c; lb., 65c.

MUSHROOMS.

Can be easily grown in any ordinary cellar or barn, and it is one of the **most profitable** crops to grow. 10 lbs. will spawn about 10 square feet.



Mushrooms, How to Grow Them—By Wm. Falconer. The most practical work ever written, and the only one published in this country. Price, \$1.50.

English Mushroom Spawn.

It comes in pressed bricks. These are broken up into pieces about one inch square and put into the bed eight inches apart each way. Price per brick, 25c; 5 lbs., \$1.00, postpaid. By express or freight, 10 lbs., \$1.20; 25 lbs., \$2.50; 100 lbs., \$9.50.

MUSKMELO.

Use Slug Shot for the Bugs; 5 lb. packages, not prepaid, 35c; 10 lb. pkg., 60c.

One ounce of seed for 50 hills; 2 to 4 lbs., for an acre.

Skillman's Fine Netted—Small, early, wth light green flesh, thick and sweet, and high flavored. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Netted Gem—One of the earliest and best small melons grown. Globular in shape, very uniform in size and weight, flesh light green and of very fine flavor, exceedingly productive and will keep for nearly a week after picking; excellent for crating to ship. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Emerald Gem—One of the sweetest melons in the list. Comes into bearing about same time as Netted Gem, but has a rich yellow flesh. As indicated by its name, it has a dark green rind only slightly netted. This is the only extra early variety having salmon flesh. The flesh is very thick, juicy and sweet. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Jersey Belle—One of the largest early sorts. It does well on light soils and comes equally early. It is slightly flattened on both stem and blossom sides, heavy ribbed and netted. It sells at sight, but when once used its exquisite quality makes firm friends of all. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 20c; lb., 60c.

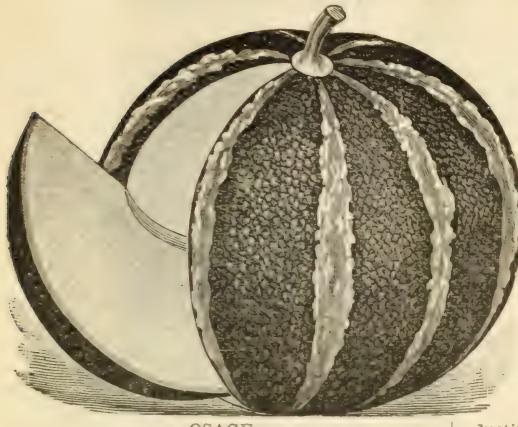
Champion Market—This is a fine green fleshed melon; just the right size for market, being neither too large for handling nor too small to bring a good price. Globular in shape, closely netted, handsome in appearance, medium early, very productive. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Baltimore Nutmeg—Uniformly good in quality and excellent in flavor. Medium in size, oval and slightly ribbed, covered with a coarse netting, flesh thick, green, sweet; a good shipper. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Early Green Nutmeg—The old original Nutmeg, and one of the very best; highly scented flesh, thick, sweet and fine flavored; of good size and quite early. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

OSAGE.

The skin is dark green, slightly netted on the lobes of the upper side; on the lower side, resting on the ground, it is smooth, and on this side it is eatable to within one-eighth inch of the outside. The flesh is of a rich salmon color. It is of medium size, never too small, very even and extra heavy, as the seed cavity is very



OSAGE.

small. It is sure of making a crop every year, and every specimen of delicious flavor. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Livingston's Market—

This sort is extra strong at the blossom side, and does not crack so badly as some. It has green flesh, same as Extra Early Hackensack, and will not doubt take the lead among green fleshed sorts. It is nicely netted, is productive, comes immediately following the little early varieties. It is worthy a liberal trial by private growers as well as the gardener or trucker. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

John Welton kindly remembered the printers and brought in a fine musk melon Monday morning. The melon weighed ten pounds, measured thirty inches in circumference, and was of a fine nutmeg flavor.—"Cumberland Banner."

Jennie Lind—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

Grand Rapids—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

Surprise—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

Casaba—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

Bay View—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

Extra Early Hackensack—One of the best general crop, green fleshed nutmeg now offered. Round, well netted, large size, flesh green and thick, delicious flavor, beautiful in appearance—has all the good qualities of Hackensack, and

comes about two weeks earlier. Our stock of this is excellent. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Livingston's New Tip Top.

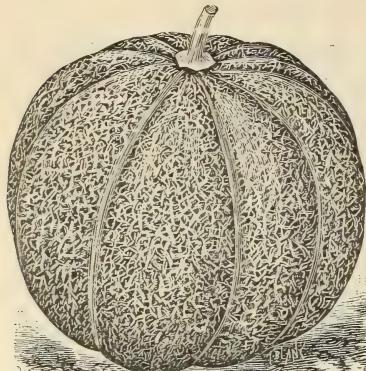
This new sort is so distinct in appearance that it attracts attention. This feature is helpful to the farmer who grows them to sell, as his customers can readily pick them out, and he can easily establish a trade for them. They are uniformly good, early and late, big and little. We believe this is more true in regard to the "Tip Top" than any other kind of Musk Melon. The flesh is crisp, always sweet, and of a beautiful salmon color. When first introduced the netting was slight, but by careful selection a strain has been produced that yields specimens nicely netted. It is a very productive variety, the vine being a vigorous grower in all seasons. Try a patch of Livingston's Tip Top, and see if what we say is not true, every word of it. Price per pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.



LIVINGSTON'S MARKET IS THE BEST.

Banana—Yellow fleshed. Skin straw color; flesh quite thick and a rich Salmon color. Grows from two to three feet in length; is early; reminds one of an overgrown banana. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.

Mr. J. W. Welton, Cass county, Iowa, writes, September 4, 1898: "I have your First in Market Peas and from one peck of seed we gathered twenty bushels of peas in pod. We have had good success with Hackensack, Osage, Tip Top and Livingston's Market Musk Melons. We have had several specimens of the last named variety which reached ten pounds in weight, one of which I had photographed, and will forward one of the pictures."



PERFECTION.

Perfection—This variety has given general satisfaction on account of its extra fine quality. It is of the nutmeg shape and quite large size, five to eight pounds each. The skin is of a dark green color, heavily netted, and on this account are very salable. Flesh is very thick and of a salmon color, of very rich, sweet flavor. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Montreal Market—The fruit is of the largest size, almost round, deeply ribbed, skin green and densely netted, flesh very thick, light green and of fine flavor. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

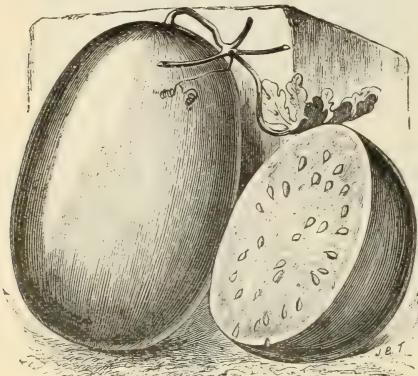
-----WATERMELON.-----

Use **Slug Slot** to drive off Melon Bugs; 5-lb package 35c, 10-lb 60c. It must be sent by express or freight, at buyer's expense.

One ounce of seed for thirty hills.

One to two pounds for an acre.

Phinney's Extra Early—The first to ripen, good size, flesh deep red; a first-class early market melon. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.



FERRY'S PEERLESS.

Ferry's Peerless—The best melon for private gardeners, and for market gardeners who deliver direct to customers. Hardy, productive; fruit medium size, oval, finely mottled; rind thin; flesh bright scarlet, solid to the center, crisp and sweet. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Cole's Early—For the home market this is a desirable early variety. It has a green rind striped with lighter shades. Rather oval in shape, of good size. Flesh red, crisp and sweet. The quality is well sustained to the rind. A sure cropper, and early enough to be grown anywhere in the United States. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Winter Pineapple.



As shown in the cut, the skin of this unique variety is corrugated instead of netted; and in color a rich yellow, tinged with green. The flesh is firm, light green in color, and has an agreeable pineapple flavor—very rich and melting. The most striking feature, however, is its wonderful long-keeping qualities. It does not ripen on the vine, but should be CAREFULLY gathered after the first frost and stored, the same as squash, in a cool, dry place, where they will gradually ripen. Bring them into a warm room a few days before wanted for the table. In this way they may be had up to quite late in the winter. Some specimens of this variety attain a size of 15 to 20 pounds, and are very odd and beautiful. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.

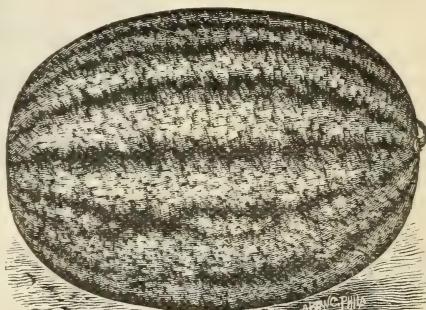
-----WATERMELON.-----

Use **Slug Slot** to drive off Melon Bugs; 5-lb package 35c, 10-lb 60c. It must be sent by express or freight, at buyer's expense.

One ounce of seed for thirty hills.

Pride of Georgia—It is a dark green mottled color, nearly oval, slightly ridged, is firm, will ship well, attaining a large size and is very sweet and crisp. This variety is used by our largest growers for medium crop almost exclusively. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Ice Cream—Medium early, white seed, fruit oblong, rind light mottled green; flesh bright scarlet, solid to the center, melting and delicious. Few, if any, surpass an Ice Cream for quality and productiveness. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.



THE DIXIE.

The Dixie—Possesses the desirable qualities of a good shipper, large size, handsome form, bright, fresh appearance; thin but firm rind, which will endure handling, and remains a long time before showing any signs of decay. It is a reliable cropper, the vines grow strong and very hardy, resisting cold and wet to a remarkable degree. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

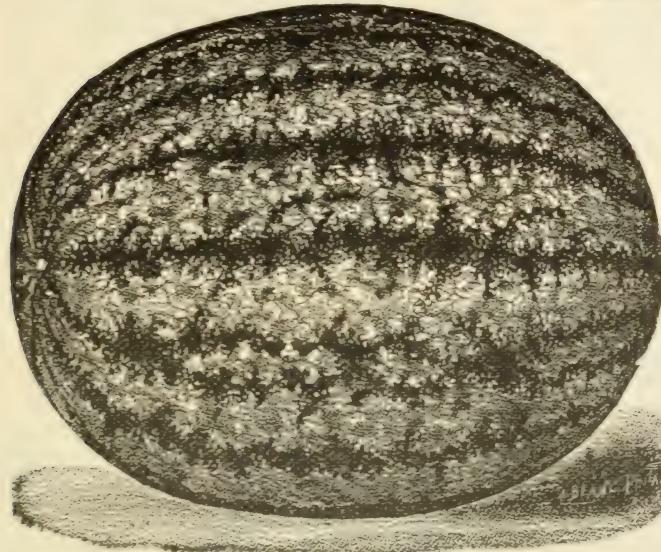
Seminole—Early, extremely productive, large, and most delicious flavor. It is of two distinct colors, gray and light green; exactly the same in size, shape, color of seed and flavor, and are found on the same vine. Try this variety for use on the farm; it will not stand marketing in large quantities. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 20c; lb., 50c.

Cuban Queen—A fine variety, growing to great size; flesh bright red, very solid and sweet. Enormously productive and an excellent keeper. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 30c.

Sweetheart—Highly recommended as a most desirable sort for shipping. Very attractive in appearance, very large, a little longer than thick. Skin beautiful mottled green. Flesh bright red, firm and heavy, but crisp and sweet. A good keeper. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 50c.

McIver's Wonderful Sugar—Deliciously sweet and melting. Claimed by the originator to be the sweetest melon ever sent out. Oblong in shape, and has a beautiful mottled skin. This variety produces good melons in either wet or dry season. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 50c.

Preserving Citron—A round, handsome fruit, of small size; used in making sweetmeats and preserves. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.



KOLB'S GEM.

Kolb's Gem—The Great Stopper. The rind quite thin, is very tough, standing handling and shipment long distances without breakage. The flesh is bright red and of excellent flavor; seeds dark. It is one of the largest, most productive, best keeping and shipping melons ever grown. A very large acreage of this sort is planted every year as a main crop, our stock of this cannot be surpassed. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Mountain Sweet—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

Dark Icing—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

Mammoth Ironclad—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

The Boss—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

Georgia Rattlesnake, or Gipsy—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

Slug Shot for Bugs—5 lbs., 35c; 10 lbs., 60c.

...ONIONS...

The New Onion Culture—This new work is full of new, original and valuable matter of material interest to those who grow onions. By the new process here described two bushels or more can be produced on the same ground that now yields one. Price, 50c.

Gregory on Onion Raising—What kinds to raise and the way to raise them. Price, 25c.

One ounce onion seed sows 150 feet; four pounds to an acre.

AMERICAN VARIETIES.



EXTRA EARLY RED.

Extra Early Red—

A medium size, flat, red variety; a good yielder and very uniform in shape and size. It comes into use about two weeks earlier than the Large Red Wethersfield; very desirable for early market use and for sections where seasons are short. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 50c; lb., \$1.25.

Southport Large Red Globe—

Matures a little later than Red Wethersfield. It keeps on growing longer, hence a heavier yielder. Is very round, beautiful, glossy, dark red in color and a good seller or keeper. Our customers are taking up with this variety very rapidly, as they find out how good it is. Pkt., 5c; oz., 20c;

$\frac{1}{4}$ lb., 60c; lb., \$2.25.

Yellow Danvers, Globe—

Extensively grown as main crop in the eastern states; of beautiful gold color, very productive, a first-class keeper; bulb medium large, quite early, thick, oval; with small neck. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 50c; lb., \$1.25.

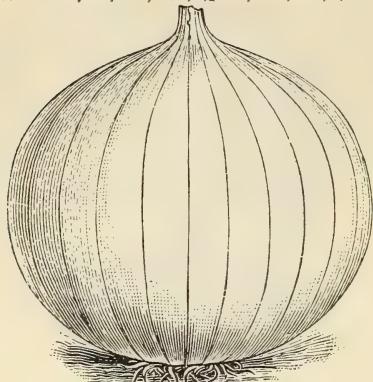


LARGE RED GLOBE.

Yellow Dutch, or Strasburg—A flat yellow onion, a good keeper, later and larger than Dan-

ONIONS—Continued.

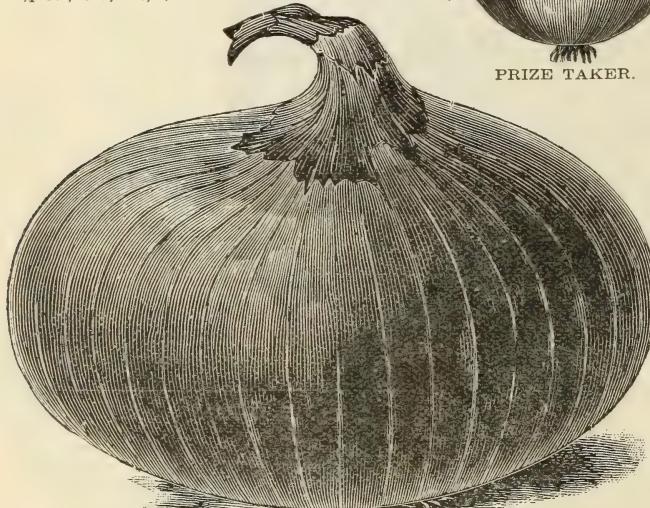
vers. Splendid sort from which to grow onion sets. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.



LARGE WHITE GLOBE.

Large White Globe—This variety yields abundantly, produces handsome globe-shaped bulbs; the flesh is firm and fine grained; a good keeper. When sown very thick it produces a fine, pure white set. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.25.

White Portugal, or Silver Skin—Ripens early, large in size, excellent for winter use; much esteemed for pickling when small, and splendid for growing sets, but should be sown very thick for this purpose. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.75.



LARGE RED WETHERSFIELD.

Large Red Wethersfield—This and the Southport Large Red Globe are the onions for the West. It is mild; dark red; good keeper; and sells readily. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.

FOREIGN VARIETIES.

White Barletta—(A beautiful pickling sort.)—The New Barletta is not only the smallest, but also the earliest onion grown; just right in size for pickling. Color beautifully waxen white. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.75.

Giant Rocca—A very large, round, brownish

yellow onion, of mild flavor. Can be grown to immense size if sown early in frame and transplanted. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.



MAMMOTH SILVER KING.

Mammoth Silver King—Has silvery white skin, and flesh of a most agreeable, mild flavor. It matures quite early; a good variety to sow for the purpose of bunching, as they are ready for market almost as soon as a crop grown by the use of onion sets. A large, flat, white variety, frequently measuring 20 inches in circumference, and often weighing three or more pounds. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.40.

Mammoth Prize Taker—This beautiful sort is of a clean, bright straw color, grows to a uniform shape, which is perfectly round; has a small neck; ripens hard and fine, with very few, if any, stiff necks. It attracts marked attention on account of its remarkable size, and brings a high price. It is very productive, has been known to produce as high as 700 bushels per acre. It is a very good keeper for one so large. The seed we offer is American grown and far superior to the cheaper imported seed offered by some, because onions grown from imported seeds are not so solid, and therefore will not keep so well. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.75.

Mammoth Copper King—This variety is the largest red onion grown. It is fine and mild in taste. With the two varieties above mentioned a combination is formed which wins prizes at all fairs for all colors. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

One packet (pkt.) each of the three Mammoth Onions above for only 10c., or one ounce each for 40c.

The earliest onions to be pulled green are produced from sets, and are advised for the amateur or kitchen gardener, as they are of least trouble.

Red Top or Button Sets—Pkt., 15c; qt., 30c.

ONION SETS.

Yellow Bottom Sets—Pkt., 15c; qt., 30c.

Red Bottom Sets—Pkt., 15c; qt., 30c.

Winter, or Egyptian Sets—Pkt., 10c; qt., 20c.

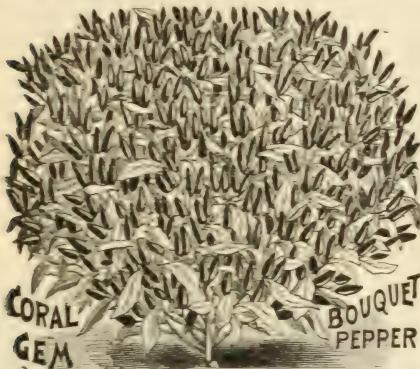
Potato Onion Sets—Pkt., 20c; qt., 35c.

Write for prices on onion sets by the bushel.

PEPPERS.

One ounce of seed to 1,500 plants.

Mix a tablespoonful of manure from the chicken coop into the soil around a pepper plant; then watch it "get up and hump itself" growing.



Coral Gem Bouquet—A very fine small variety. Is used in making pepper sauce, as the very small bright red pods of this variety are extremely hot. The plant itself, when filled with the numerous bright red little pods, is like a bouquet of flowers; hence its name. A plant grown in a flower pot or box is quite ornamental. Some gardeners grow this variety for market, to sell by the bush; in this way avoiding the necessity of picking the pods. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

Cayenne—(Chili)—Small and very hot. The Cayenne Pepper of commerce. Pkt., 5c; $\frac{1}{4}$ oz., 15c; oz., 25c.

Long Red Cayenne—Beautiful and productive, four inches long and a half inch or more in diameter; flesh thick and hot. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c.



Large Bell or Bull Nose—An early variety, of mild flavor, the rind thick and fleshy. A standard sort. We sell more of this than any other variety for making Mangoes. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00.

Large Sweet Mountain—Very large, and excellent for Mangoes. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

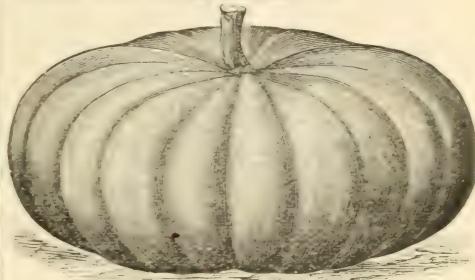
Mammoth Golden Queen—An improved variety of a very large yellow sort, of fine shape, mild and unexcelled for Mangoes. Pkt., 5c; oz., 35c.

Mammoth Ruby King Mango—The largest of all varieties. They grow four to six inches long by three to four inches thick. When ripe they are beautiful, bright, ruby red color, and are always remarkably pleasant and mild. The plant is of a sturdy, bushy habit, if planted on soil a little poor, which is best for this sort. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c.

PUMPKIN.

Pumpkins are generally raised in a field of corn or potatoes, and may be planted with success in fields by themselves, in May or early June, in hills eight feet apart each way.

One ounce for 15 hills; one pound for an acre. **Livingston's New Thanksgiving**—See novelty list. Pkt., 10c; 3 pkts., 25c. **Large Common Yellow Field**—Grown principally for feeding stock. Oz., 5c; $\frac{1}{4}$ lb., 10c; lb., 25c; 5 lb., not postpaid, 75c.



LARGE SWEET CHEESE.

Large Sweet Cheese—Excellent for pies. Productive, flesh yellow and sweet, keeps well into the winter. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Sweet or Sugar—Fruit quite small and round. A very prolific variety and superior for pies and table use. The skin is a deep orange yellow, an excellent keeper. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Genuine Mammoth or True Potiron—This is the big pumpkin on which there is often offered prizes for the largest one grown. It has grown to 200 lbs. and upward. It is a curiosity, and also of practical value in feeding to stock. The weight of pumpkins produced on an acre is something enormous. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.



PARSNIPS.

One ounce to 100 feet of drill. 5 or 6 pounds for an acre. If you want parsnips to grow short don't plow too deep.

Large Sugar or Hollow Crown—Roots long, white, smooth, sugary, excellent flavor. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 40c. **Guernsey**—Thought to be an improvement by some, as they grow shorter than Hollow Crown. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 45c.

Mrs. W. W. Boyle, Morfa, Texas, writes, July 8, 1883: "I send for a few more seed for late vegetables and flowers. I am more than pleased with my success with the seeds which you sent me in the spring. Next spring I will order from you again."

PARSLEY.



One ounce to 150 feet of drill.

Double Curled—A fine dwarf variety. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Champion Moss Curled—Very beautifully crimped and curled. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 20c; lb., 70c.

Fern Leaved—A very beautiful variety; very desirable for table decoration. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

LIVINGSTON'S

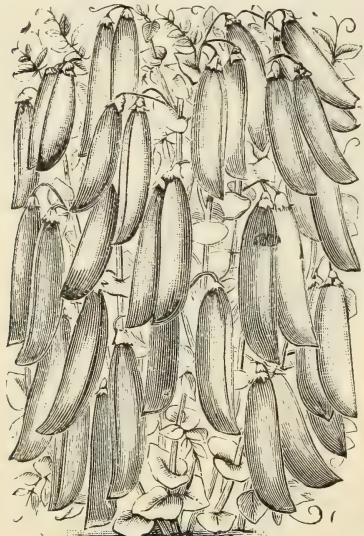
GARDEN PEAS

We have these grown as far north as possible, so they will come into bearing sooner, and are free from bugs. They are grown by men who make a business of it. Notice time of maturity so you can plant so as to have a succession in the different crops of peas.

Quart and pint prices on Peas include postage; if to go by express at buyer's expense, deduct 15c per quart, or 8c per pint, from prices below. Half pints will be sent at pint rates.

One quart sows eighty feet of drill, 2 to 3 bushels to the acre.

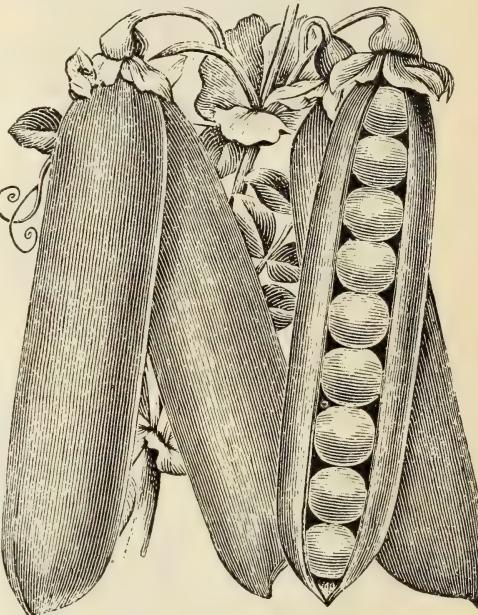
Extra Early Alaska—This variety is several days earlier than most early sorts, of good size and productive. The vines grow about 1 $\frac{1}{2}$ to 2 feet high. It is the one for market gardeners to grow for the first few days before the larger sorts begin to come in. Ready to pick in 50 days. Pkt., 5c; pt., 20c; qt., 35c; pk., 80c; bu., \$3.00.



LIVINGSTON'S FIRST IN MARKET.

Livingston's First in Market—A variety coming only a few days later than Extra Early Alaska, but having a larger pod. Is used in large quantity by market gardeners for an early market sort, as it is more hardy than the wrinkled kinds, although not quite so sweet, yet it can be planted in colder ground and not rot, when a wrinkled pea might. For those who grow for table use alone it would be best to take some wrinkled variety. The First in Market grows to 18 inches or 2 feet in height, stands up well and always well filled. Has pods of good size and always well filled. The entire crop can be picked almost at once and the ground can be immediately planted to a second crop. Ready to pick in 52 days. Pkt., 5c; pt., 20c; qt., 35c; pk., 90c; bu., \$3.25.

American Wonder—This wrinkled variety planted in June has matured in 33 days. It is of dwarf and robust habit, growing from ten to fifteen inches high, and produces a profusion of good sized and well filled pods of the finest flavored peas. Ready to pick in 50 days. Pkt., 5c; pt., 20c; qt., 35c; pk., \$1.10; bu., \$4.00.



NOTT'S EXCELSIOR.

Nott's Excelsior—A grand new extra early Dwarf Pea. A day or two later than American Wonder, but pods are one-third larger; six to eight large, luscious peas in a pod. They are of the green, wrinkled kind, very fine flavored and tender. Without doubt the finest extra early pea in cultivation. Nott's Excelsior deserves liberal planting. Ready to pick in 60 days. Pkt., 10c; $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c; pk., \$1.10; bu., \$4.00.

McLean's Little Gem—A dwarf green wrinkled variety, twelve to fourteen inches high; no sticks required; very prolific; of superior flavor. Matures in about fifty days. Ready for picking in sixty days. Pkt., 5c; pt., 20c; qt., 35c; pk., \$1.10; bu., \$4.00.

Premium Gem—A very fine dwarf pea of Little Gem type, on which it is an improvement, larger pods and more productive. A profitable early wrinkled pea for market gardeners. Ready for picking in sixty days. Pkt., 5c; pt., 20c; qt., 35c; pk., \$1.10; bu., \$4.00.

First and Best—Pkt., 5c; pt., 15c; qt., 30c; pk., 75c.

Tom Thumb—Pkt., 5c; pt., 20c; qt., 35c; pk., \$1.00.

MEDIUM EARLY SORTS.

McLean's Advancee—A green, wrinkled variety, about two and a half feet high, with long pods, which are abundantly produced and well filled to the end. Ready to pick in sixty days. Excellent flavor. Pkt., 5c; pt., 20c; qt., 35c; pk., 25c; bu., \$3.50.

Improved Stratagem—A green, wrinkled pea; height two feet; vigorous, branching, remarkably luxuriant foliage, an enormous cropper. Pods long, well filled, with seven to nine peas of enormous size. Our stock of this comes very true. There is none better. They are ready for picking in eighty days. Pkt., 5c; pt., 20c; qt., 35c; pk., \$1.25; bu., \$4.50.

Abundance—Plants half dwarf, fifteen to eighteen inches high; pods large size, containing six to eight wrinkled peas of excellent quality. Sow the seed much thinner than usual, as it has a remarkable tendency to branch. Ready to pick in seventy-five days. Pkt., 5c; pt., 20c; qt., 35c; pk., 25c; bu., \$3.50.

which the Heroine will, no doubt, in time take the place of. In time of ripening it follows Little Gem. Ready to pick in about eighty days. Pkt., 10c; pt., 20c; qt., 35c; pk., \$1.00; bu., \$3.75.

Carter's Telephone—Green, wrinkled; height $\frac{3}{2}$ feet; foliage luxuriant, productive; pods unusually large size, elegant shape, slightly curved, well filled with peas of large size, good quality. Ready for picking in seventy days. Pkt., 5c; pt., 20c; qt., 35c; pk., \$1.10; bu., \$4.25.

Melting Sugar—A head of all the edible podded sorts in high quality. Pods large, tender and stringless. You use them same as string beans. Very productive, of branching habit. The best variety of this class. Ready for picking in eighty days. Pkt., 5c; pt., 25c; qt., 40c; pk., \$1.25.

Dwarf Sugar—Pkt., 5c; pt., 20c; qt., 35c; pk., \$1.00.

Everbearing—Pkt., 5c; pt., 20c; qt., 35c; pk., 25c.

LATE SORTS.

Tall Sugar—Pkt., 5c; pt., 20c; qt., 35c; pk., \$1.00.

Yorkshire Hero—A large, wrinkled pea, sometimes called Dwarf Champion; branching habit, abundant cropper, and of excellent quality; height two and a half feet. Ready for picking in eighty days. Pkt., 5c; pt., 20c; qt., 35c; pk., 25c; bu., \$3.50.

Champion of England—Universally admitted one of the best peas grown; delicious flavor, profuse bearer, four feet high. Ready to pick in 80 days. Pkt., 5c; pt., 20c; qt., 35c; pk., 25c; bu., \$3.50.

Marrowfat-Black-Eyed—An excellent variety either for garden or field culture; grows about four feet high, with large, well filled pods; a popular market variety. Ready to pick in eighty-five days. Pkt., 5c; pt., 15c; qt., 30c; pk., 65c; bu., \$2.25.

Marrowfat-Large White—One of the oldest varieties in cultivation and a favorite market sort; it grows about four feet high, with very broad pods, well filled, of excellent quality. Ready to pick in eighty-five days. Pkt., 5c; pt., 15c; qt., 30c; pk., 65c; bu., \$2.25.

RADISHES.

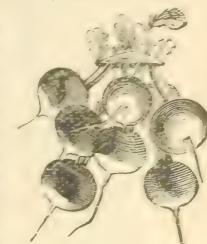
Sow every two weeks from March to September for a succession; they must grow rapidly to be crisp, mild and tender.

One ounce sows one hundred feet of drill; eight to ten pounds for an acre.

French Breakfast—A variety of quick growth, very mild and tender, and one of the best for forcing. Oval form, scarlet tipped with white. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 45c.

White Tipped Scarlet Turnip-Rosy Gem—This is an early variety of medium size.

of excellent flavor and handsome appearance. A beautiful scarlet on top, shading to pure white at the bottom. Very popular in some of our large markets; used in quantity for forcing in greenhouse and hot beds, and a splendid sort to grow in small home garden. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.



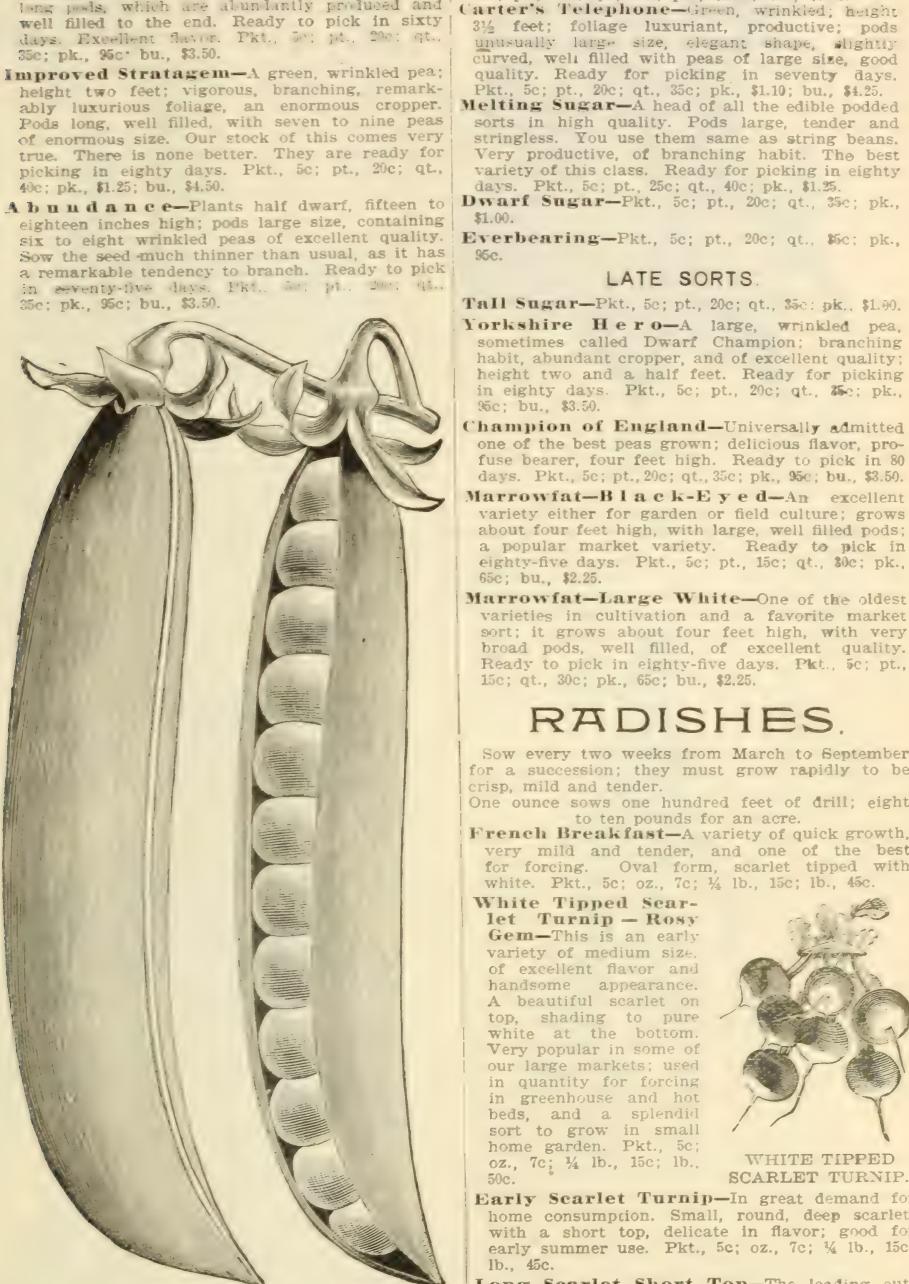
WHITE TIPPED SCARLET TURNIP.

Early Scarlet Turnip—In great demand for home consumption. Small, round, deep scarlet, with a short top, delicate in flavor; good for early summer use. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 45c.

Long Scarlet Short Top—The leading outdoor quick growing long variety both for private and market gardeners the country over. Average length about eight inches; grows half out of the ground; straight and uniform in color, which is bright scarlet; brittle and crisp; small top. None better for shipping in bunches. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

HEROINE.

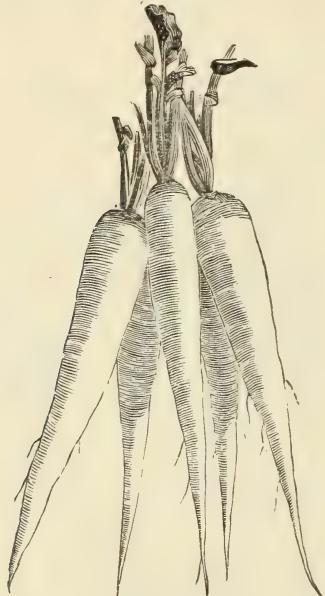
Heroine Pea—A medium early green, wrinkled pea, bearing immense pods, which are slightly curved and filled with eight to ten peas, of the largest size and finest quality. **An immense cropper**, and more sure than Stratagem,





EARLY SCARLET GLOBE.

Early Scarlet Globe—Is very early, handsome in color, flavor mild, crisp, juicy and tender. It is a market gardener's favorite as a round forcing radish. It forms a small top, and will stand a great amount of heat without becoming pithy. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.



LADY FINGER.

Lady Finger (Long White Vienna)—The finest long white, early summer variety grown—pure pearl white, almost transparent. Stands longest of any and is crisp and sweet. Our gardeners tell us they can pull choice specimens of Lady Finger Radishes for a month or more. Every family gardener must have it. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

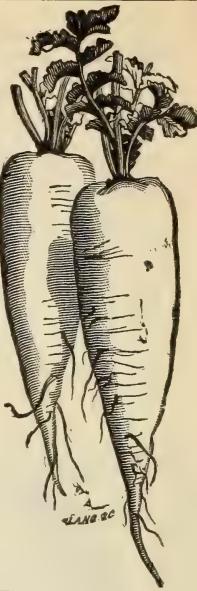
Long Brightest Scarlet White Tipped—

A bright scarlet color at the top and changing to pure white at the bottom, this variety attracts attention. It is very early, being ready for market in about 25 days; but, like all quick growing sorts, it must be used at once. Successive sowing would keep them in proper condition for the table. If you have not grown this variety it's peculiar bright color will be a surprise. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

White Turnip—Of turnip shape, and is of a pure white color and large size. A fine early summer sort; won't get soft for a long time. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Giant White Stuttgart—Very large, often four inches in diameter; skin white and crisp; Those not used as a summer radish can be stored for winter use. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

White Strasburg—The roots are handsome, oblong, tapering shape; both skin and flesh are pure white. The flesh is firm, brittle and tender, and possesses the most desirable character of retaining its crispness even when roots are old and large. Excellent for summer use, as it withstands severe heat and grows quick. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.



WHITE STRASBURG.

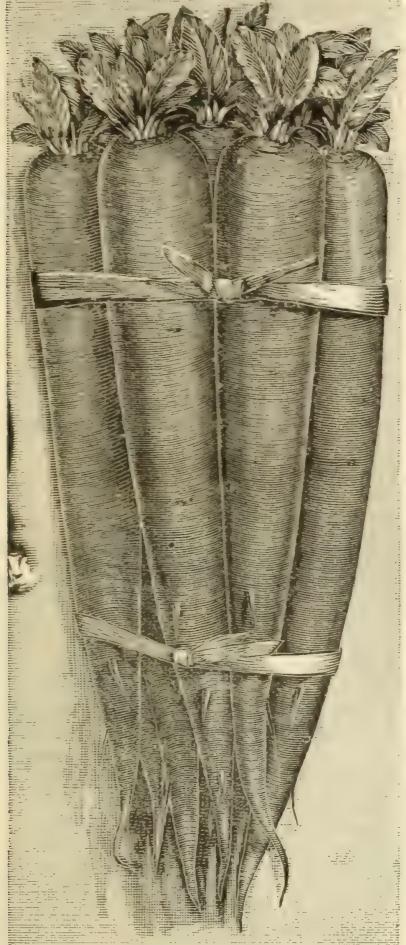
CHARTIER RADISH.
(For description, see next page.)

Chartier (Shepherd's)—A decidedly distinct exceedingly handsome and attractive variety. The color at the top is crimson, running into pink about the middle, and from thence downward it is a pure waxy white. It will attain a very large size before it becomes unfit for the table. It is undoubtedly one of the very best "all season" radishes for open culture. If sown after the ground gets warm in spring it is ready for use or market as early as the Long Scarlet, and keeps crisp and tender for a long time. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

White Box—Pkt., 5c; oz., 10c.

Golden Globe—Pkt., 5c; oz., 10c.

Chinese White (Celestial)—A fine winter radish of large size, having white skin and flesh, a good keeper, mild in flavor, brittle, never woody. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 20c; lb., 60c.

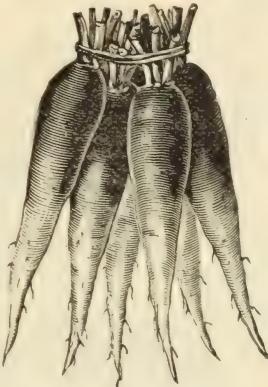


CINCINNATI MARKET.

CINCINNATI MARKET.

We would especially advise its use as a first early crop sown in the open ground. **Tops are small**, allowing of very close planting. It is very handsome; grows smooth and straight to six or seven inches long; very attractive; glossy, scarlet, thin skin. **Flesh crisp** to a surprising degree, and as it stands a long time before getting soft, it is especially desirable for

the garden. A trial is convincing. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.



WOOD'S EARLY FRAME.

Wood's Early Frame—About ten days earlier than the Long Scarlet, which it very much resembles, although not quite so long. The best long variety for forcing in greenhouse or hot bed. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Chinese Rose Winter (Scarlet China)—

A brilliant rose colored winter variety of excellent quality, very attractive and one of the best. Is sometimes grown for summer market, and sold by the bushel. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Long Spanish Winter—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Round Black Spanish Winter—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 20c; lb., 60c.

California Mammoth White Winter—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 20c; lb., 60c.

RHUBARB

A deep, rich soil is best for rhubarb. Sow early in drills, 18 inches apart and 1 inch deep; the spring following transplanting, allowing each plant at least 2 feet square; each fall mulch with manure. The roots are preferable for those who want immediate results, and only need a small bed.

One ounce for about eight hundred plants.

Victoria—Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 60c.

Linneaus—Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 60c.

Roots (Small)—By mail, postpaid, each 15c; 4 for 50c.

By express (Large), not paid, each 5c; doz., 50c.

SQUASH.

Use Slug Shot for Bugs; 5 pound package (not prepaid) 35c; 10 pounds, 60c.

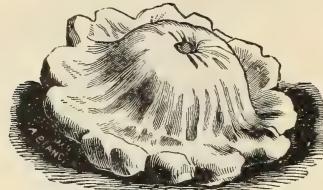
One ounce of the bush variety for forty hills, or of large seeded running kind, fifteen hills; two to three pounds of one, and three to four pounds of the other, for an acre.

Giant Summer Crookneck—This magnificent strain grows to a very large size, and yet is earlier than the common variety. A profitable sort, because it grows to large, marketable size very quickly. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Livingston's Cushaw—(Crookneck)—A rich and very popular sort. Color of skin green and white striped. The old-fashioned Cushaw squash of our forefathers, only improved in productiveness and quality; flesh yellow. Splendid for pies. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 20c; lb., 60c.

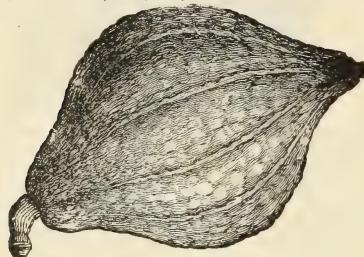
Early Golden Scallop Bush—Pattypan in shape, in color yellow. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 45c.

Early White Bush Scallop—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.



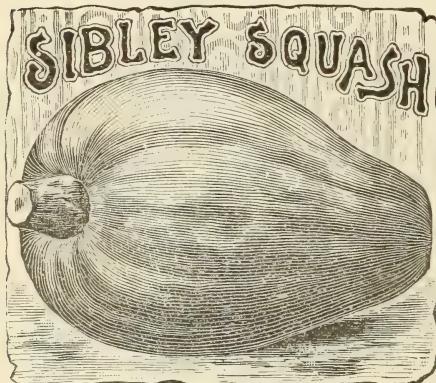
SCALLOP SQUASH.

Mammoth White Scallop Bush—Early, of large size, and it is a continuous bearer. A pearly white, making it very salable. A splendid variety for the southern shipper. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.



HUBBARD.

Hubbard—Generally considered the best winter squash grown; the flesh is dark yellow, fine grained, dry and sweet, very hard, warty shell; will keep till spring; very productive; color dark green when ripe. We offer a very carefully grown stock. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 45c.



Sibley, or Pike's Peak—This sort is growing rapidly in favor. The flesh is solid, thick, orange in color, dry, fine grained and of delicious flavor. Very prolific, ripens fruit evenly, keeps till spring. The shell is pale green in color, very flinty, making a good shipper. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Yellow Summer Crookneck—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

Fordhook—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

Early Prolific Marrow—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

Boston Marrow—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

American Turban—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

Marblehead—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

Essex Hybrid—Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c.

Mammoth Chili—Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c.

... SPINACH ...



One ounce for 100 feet of drill. Ten to twelve pounds for an acre in drills.

Savoy Leaved ("Norfolk," "Bloomsdale")—The earliest variety. Plants of upright growth, with fine leaves, which have the appearance of the Savoy Cabbage. It comes quickly to a suitable size for use. Recommended for fall sowing. Oz., 5c; $\frac{1}{4}$ lb., 10c; lb., 35c.

Long Standing—An improved strain of excellent merit, having all the good qualities of the ordinary sorts; especially desirable for market gardeners, because it is much later in going to seed than others. Oz., 5c; $\frac{1}{4}$ lb., 10c; lb., 35c.

Round Leaved—The favorite for winter use. Very hardy. It stands our severest winters with but little injury. Oz., 5c; $\frac{1}{4}$ lb., 10c; lb., 35c.

Viroflay, or Thick-Leaved—Very large, thick leaves, and quite superior to the ordinary round leaf. Oz., 5c; $\frac{1}{4}$ lb., 10c; lb., 35c.

Prickly Seeded Winter—Very hardy. Stands well in winter, therefore the best for northern latitudes where the winters are very severe. Oz., 5c; $\frac{1}{4}$ lb., 10c; lb., 25c.

Five pounds any kind Spinach or assorted, by express, for \$1.15.

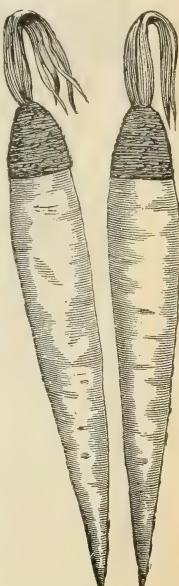
SALSIFY (Vegetable Oyster.)

The long, white tapering root of Salsify resembles a small parsnip, and when properly cooked is a good substitute for oysters in taste, and flavor, is very wholesome and nutritious. The roots are boiled or mashed and made into fritters. It succeeds best in a light, well enriched soil. Sow early in drills, eighteen inches apart, and two inches deep; finally thin to four or five inches apart. The roots are perfectly hardy, and may remain out all winter, but should be dug early in the spring. Store a quantity for winter use. They are best after frost has touched them.

One ounce for 50 feet of drill.

Long White—A standard variety. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

Mammoth Sandwich Island—A very large and superior variety. Mild and delicately flavored. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; lb., \$1.25.



MAMMOTH SANDWICH ISLAND.

Livingston's Tomatoes.

So popular have these become that no American seed catalogue is complete without them. They cover the winter ground from early to late sorts, and every one is perfect. Introductions by others are simply a matter of repeating some of ours. The sum of varieties of our introduction now aggregate several thousand. We only sell seed grown from our original stock only. Buying from us you take no risk.

Livingston and the Tomato.

A book written in very readable style, not only telling all about Tomatoes, but giving quite a biography of the author himself. It tells how to prepare the soil, best kinds to use, management of hot beds, culture in the field, staking up, insect enemies, diseases, remedies, harvesting, shipping, selling, profits, the different uses, etc. Handsome cloth binding, gilt title, profusely illustrated, on finest paper, 176 pages. Price, postpaid, \$1.00.

Yellow Prince—New, novelty list for full description.

Livingston's "Honor Bright"—Very distinct. Refer to Novelty List for full description, prices and picture.

Atlantic Prize—One of the earliest of all; not only ripens its first fruits, but a large proportion of the crop earlier than any other sort; valuable when earliness is the main object desired. Fruit small and sometimes rough. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Livingston's Early Acme—The earliest good tomato grown. Fruit of medium size, round, very smooth; color a glossy dark red; ripens all over and through at the same time; a delicate flavor. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c.



Livingston's Beauty—The great table and market sort. The color is quite distinct, being a very glossy crimson, with a slight tinge of purple. It grows in clusters of four or five large fruits, retaining its large size till late in the season. It ripens very early; is a model in shape, being entirely free from rough specimens. It seldom cracks. For shipping and for early market it cannot be excelled on account of its solidity, toughness of skin, and especially on account of its color, as when picked quite green it will ripen nicely and look well. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00.

Livingston's Royal Red—A first-class variety for the shipper, market and private gardener; of special merit to the canning and catsup factories, being of a bright red. It is solid and smooth, of uniform size. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

Livingston's Gold Ball—A beautiful, round, yellow variety. Flesh thick, of extra good quality; smooth as an apple, grows in clusters; produces enormous crops. Fine for preserves. Pkt., 5c; $\frac{1}{2}$ oz., 15c; oz., 25c.

Livingston's Golden Queen—A yellow sort of first-class quality, solid, very smooth, large in size, ripens up early; is very handsome. None better for slicing; the handsome slices golden make a beautiful contrast in a dish with red ones. Pkt.,



DWARF CHAMPION.

Dwarf Champion—It stands up well, even when loaded with fruit, in consequence of having stiff, bushy stems. The foliage of a dark green color, leaves thick and different from common varieties. The crop ripens up early and evenly, is a good cropper, smooth, medium in size, flesh color. Recommended as best for forcing in greenhouse and first crop in field. Pkt., 5c; $\frac{1}{2}$ oz., 15c; oz., 25c; $\frac{1}{4}$ lb., 60c; lb., \$2.00.

LIVINGSTON'S NEW HAWKEYE.

Comes quite early for one so large; bears till Fall. Perfectly smooth. Ripens all over and through the center the same day. No waste. Handsome.

Glossy purplish Red. Sells on sight. Has solid meat and seed cells; few seeds. You get five or more cans from a bushel than from the old style sorts. It's just what you have been looking for—a great big, perfectly smooth Tomato; a can filler, a good seller. Try it. Pkt., 5c; $\frac{1}{2}$ oz., 15c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

Livingston's Potato Leaf—Fruit smooth and uniform in size; flesh-colored skin. Comes into bearing quite early, and the heavy potato-leaf foliage protects the fruit from early frosts in the fall. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c.

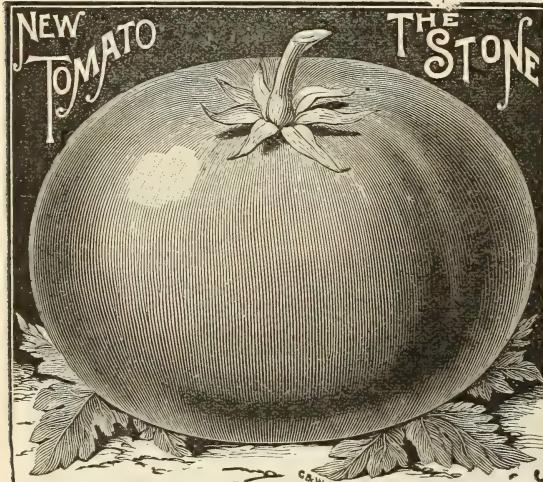
TOMATOES—Continued.

Livingston's Perfection—Large, early; has solid flesh and few seeds; produces large fruit at the close of the season; perfectly smooth; blood red in color. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c.

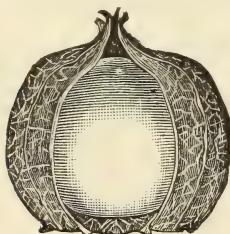
Livingston's Paragon—Has become a decided favorite with market gardeners and canners. It is a large sized variety. The meat is solid and well flavored; late; color deep red. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00.

Livingston's Favorite—Does not easily crack; in color it is a rich dark red, ripens up very evenly, and holds its size well to the end of the season. Very prolific, good flavor, few seeds, flesh solid, bears shipping long distance. A leading variety with canners; a heavy cropper, and having such a beautiful crimson-scarlet flesh so much desired by those who pack first-class goods. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00.

Livingston's Stone—For main crop; largest variety, of a bright, scarlet color; very smooth, ripening evenly to the stem; exceedingly solid and firm fleshed; excellent shipper; quality very best; fine for canning; a good keeper; without hard core. Attractive; very productive. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$2.00.



Ground Cherry, Strawberry or Husk Tomato—This husk-ensveloped tomato is unequalled for preserving and pies. Dried in sugar, as raisins or figs, or too, for fruit cake, they are unexcelled. It has a strawberry flavor, and produces fruit in great abundance. In sec-

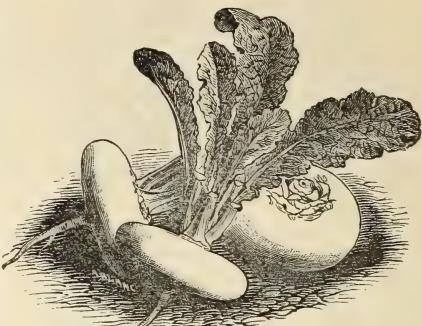


HUSK TOMATO.

tions devoid of fruit or liable to fail, they are esteemed very highly. Sell first rate in market. Fruit of a handsome golden color, the size of large cherries, esteemed by many to eat from the hand. Pkt., 5c; oz., 25c.

TURNIP.

One pound is sufficient to sow an acre.



EXTRA EARLY WHITE MILAN.

Extra Early White Milan

The Purple Top Milan is one of our most popular turnips for spring sowing, but in this new sort we have a splendid extra early turnip in which the extreme earliness, small top and tap root of the Purple Top Milan is united with clear white skin and flesh. It is fit for use at least a week earlier than any other pure white variety in cultivation. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

Extra Early Purple Top Milan

Pearl white, with bright purple top; is round and smooth, with small roots and but few leaves; is mild, sweet, and remains in good condition a long time. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Extra Early Purple Top

Munich—Very early with a bright, purplish red top and fine root; good only for early use. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Early Flat Dutch, or White Top Strap-leaved

A standard variety; good size; pure white, small top with but few leaves. Is very sweet. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.



PURPLE TOP MILAN.

White Egg—A quick growing, egg shaped, perfectly smooth, pure white variety, growing half out the ground, with small top; particularly adapted for market purposes in summer. The flesh is very sweet, firm and mild. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Large Amber Globe

—One of the best varieties either for table use or for field crop for stock. Flesh yellow, fine grained and sweet; color of skin yellow; hardy, keeps well, and grows to a very large size. Very popular south. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Large White Globe—Is one of the most productive kinds; in good, rich soil, roots will frequently grow to 12 pounds in weight. It is of perfect globe shape, skin white and smooth. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Orange Jelly or Robertson's Golden Ball—Undoubtedly among the most delicate and sweetest yellow fleshed turnips introduced. Not of large size, but firm, hard and of most excellent flavor. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c;

Purple Top White Globe—One of the best; of large size, has globe shaped bulbs, with red or purple top, fine quality. Very handsome and attractive for market. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Sweet German—Flesh white, hard, firm and sweet, and it keeps nearly as well as Ruta Baga. Recommended for winter and spring use. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.



PURPLE TOP
STRAP-LEAVED.

RUTA BAGA (Swedish Turnip)

The Ruta Baga, Swedish or Russian Turnip, is extensively grown as a farm crop; the roots are close grained, very hard, and will endure a considerable degree of cold without injury; excellent for the table in early spring.



AMERICAN YELLOW PURPLE TOP.

American Yellow Purple Top—Very hardy and productive; flesh yellow, solid, sweet and fine flavored; the best variety for stock or table use. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 50c.

Remember Our Discount.

| | |
|-----------------|--------------------|
| For 25c we send | 30c worth packets. |
| For 50c d | 65c " " |
| For \$1.00 " | \$1.30 " " |
| For \$2.00 " | \$2.75 " " |

TOBACCO.

Book on Tobacco Culture—25c.



TOBACCO.

Purple Top Strap-leaved

The well known popular variety, either for family or market use; large size, white, purple above the ground; flesh fine textured, and has a rich, buttery flavor. For a general crop we consider this variety far superior to all others. Pkt., 5c; oz., 7c; $\frac{1}{4}$ lb., 15c; lb., 45c.

Sow the seed after all danger of frost is past, same as for late cabbage. Best way is to burn a brush heap, then dig up and thoroughly pulverize the soil, mixing ashes and soil. Sow seed, covering very lightly, and when plants are about six inches high transplant to rows about four feet apart each way.

Connecticut Seed Leaf

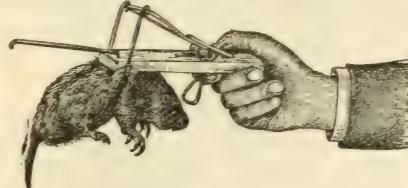
—Finest variety for wrappers. Pkt., 5c; $\frac{1}{4}$ oz., 15c; oz., 25c.

Havana—Genuine article. Pkt., 5c; $\frac{1}{4}$ oz., 15c; oz., 25c.

ST. BRIGID OR IRISH POPPIES.

Nothing could be more glorious than a bed of these new Irish Poppies when in flower. One might well compare it to a kaleidoscope picture, glistening with and reflecting thousands of bright colors; or to some bright Oriental carpet whereon the artist has exercised his ingenuity to blend pleasing and effective colors. Indeed, the flowers produced by this new strain show all the colors of the rainbow and many more; for even black and white are found among them, as well as shades of pink, rose, crimson, fiery scarlet, carmine, maroon, tints of lilac, lavender, blue, purple, even green. Many flowers are curiously mottled, striped, edged, fringed and shaded with the various tints described above, the effect produced being almost bewildering. They are also frequently of very large size, even five to six inches across; scalloped or fringed edges. Sown early and planted in the garden in rich soil, they will bloom profusely, and frequently until well after frosts have cut down other tender plants; and, being perfectly hardy, they will bloom again the next season in greater profusion than ever. For cutting they are unsurpassed, as the flowers and the beautiful fern-like foliage remain fresh in water for a week or more. The plants can be lifted in the autumn and bloomed in the winter for Easter decoration. Pkt., 10c. Roots, 10c; three for 25c.

Frank A. Pierce, Story county, Iowa, writes, February, 7, 1898: "I can most heartily recommend your seeds. The seeds I planted last year were of the order I sent you two years ago, and they were all good."



NEW PRINCIPLE

When properly set
will catch 'em out of 20.

The Best Trap Made for
POCKET GOPHERS.

No Danger and Easy to Set. Sure Catch.
Sample trap, sent postpaid for 25 cts.

Full Directions With Each Trap.

FLOWER SEEDS.

the most desirable and satisfactory varieties, those that will yield the largest returns for the least expense and trouble. By all means have at least one well tended flower bed the coming year. If either one of the following collections does not meet your approval make up your own collection at the following discounts:

Send 25 cents and select **Packets** to the value of 30 cents.

Send 50 cents and select **Packets** to the value of 65 cents.

Send \$1.00 and select **Packets** to the value of \$1.30.

These rates do not apply to flower seed offered by **weight**.

15c COLLECTION.

Seven regular sized packets fresh flower seeds only 15c.—Sweet Alyssum, Mignonette, Nasturtium, Phlox, Portulaca (Rose Moss), Sweet Peas and Zinnia.

25c COLLECTION.

Twelve full sized packets fresh flower seeds, only 25c.—Sweet Alyssum, Aster, Balsam, Candytuft, Mignonette, Nasturtium, Phlox, Pansy, Portulaca (Rose Moss), Poppies, Sweet Peas and Zinnia.

50c COLLECTION.

Twenty-five full sized packets of fresh flower seeds, only 50c.—Sweet Alyssum, Aster, Bachelor Button, Columbine, Calliopsis, Balsam, Candytuft, Four O'clock, Mignonette, Larkspur, Maurandia, Mourning Bride, Morning Glory, Marigold, Nasturtium, Phlox, Pansy, Portulaca (Rose Moss), Poppy, Pink, Petunia, Salpiglossis, Sweet Peas, Verbena and Zinnia.

ASTERS.

(FALL ROSES.)

Very beautiful and popular plants, growing from 10 to 18 inches high. For profusion of flowers and richness of display the Asters are unrivaled, and constitute the principal adornment of our gardens during the autumn. Sow the seed early in spring, under glass or in pots in the house, and transplant into rich soil, about one foot apart. Half hardy annual.

We are very careful to keep our stock of Aster seed up to the highest standard.

... MIGNON ...

Decidedly one of the finest Asters for Cut Flowers.—Resembles the Victoria in form; blooms very freely; very attractive in the garden, and lasts a long time after cutting. **White**, pkt., 10c; **Mixed**, pkt., 10c.

VICTORIA PRIZE.

Victoria Prize—Undoubtedly the handsomest Aster in cultivation. Very large, flowers perfectly double and of globular shape, and with petals turning out from the center. Plants are of pyramidal form, 1 to $1\frac{1}{2}$ feet high. **Pure White, Apple Blossom, Crimson, Light Blue, Dark Blue and Finest Mixed**; each, pkt., 10c; three for 25c.

Comet—(Poodle)—A handsome, new and very distinct class of Asters, resembling the Japanese Chrysanthemum in form of flowers. The petals are long and beautifully curved, of a delicate shade of pink, bordered with white, pink and other colors. **Mixed**, pkt., 10c.

In presenting our Flower Seed List for the coming season we offer only

the largest returns for the least expense and trouble. By all means have at least one well tended flower bed the coming year. If either one of the following collections does not meet your approval make up your own collection at the following discounts:

Send 25 cents and select **Packets** to the value of 30 cents.

Send 50 cents and select **Packets** to the value of 65 cents.

Send \$1.00 and select **Packets** to the value of \$1.30.

These rates do not apply to flower seed offered by **weight**.



PAEONY FLOWERED PERFECTION.

Paeony—Flowered Perfection—Large and remarkably fine flower, with long incurved petals, resembling those of the Paeony, one of the finest Asters. Pure white, pkt., 10c. Mixed colors, pkt., 5c.

Queen of the Market—These bloom about two or three weeks sooner than any other sort. Mixed, pkt., 5c.

Dwarf Bouquet—Single plant forms complete bouquet, pyramidal shape; covers itself with blossoms, often numbering fifteen to twenty flowers and entirely hiding foliage; fine for edging and small beds. Mixed colors, pkt., 5c.

Victoria Needle—Flower very large, quite early, one of the finest. All colors mixed. Pkt., 10c.

Crown White Center—The center of each is pure white, with the outer petals of bright colors; handsome shape. Mixed colors. Pkt., 10c.

Large Flowered Rose—Magnificent flowers in shape and size, of brilliant colors. Making a beautiful display during August and September. Can be relied upon to produce the finest flowers for exhibition purposes; eighteen inches high. Mixed colors, pkt., 5c.

Dwarf Chrysanthemum — Flowered—Of very compact growth; flowers from three to four inches in diameter and very abundant; later than other varieties, therefore valuable for succession; one foot high. Choice mixed, pkt., 5c.

MIXED ASTER SEED.

Livingston's—Choice Mixed—Including all of the above kinds. Pkt., 10c; 3 for 25c.
Good Mixed..... Pkt., 5c.



ALYSSUM LITTLE GEM.

ALYSSUM.

A desirable hardy annual, flowering from early spring till killed by the frost, and all winter in the house, if sown in August. Flowers pure white and one of a delicate fragrance. Most effective in masses and borders of beds. Useful in all kinds of small bouquets.

Odoratum Sweet—Pkt., 3c; oz., 25c.

Little Gem—The plants are very dwarf, and each spreads so as to completely cover a space a foot in diameter. They soon become one mass of bloom, which is pure white, and remains from spring to fall. The little spikes of bloom are deliciously fragrant. Pkt., 5c.

AGERATUM.

Desirable in the garden, and prized by florists because it bears a great many flowers, and keeps in bloom a long time. Desirable for bouquet making. It blooms constantly all summer in the garden, and if removed to the greenhouse, all winter. Grows 1 1/2 feet high, and plants should stand 2 feet apart. Color light blue. Hardy annual.

Mexicanum—Blue. Pkt..... 3

BALLOON VINE.



Is a curious half hardy annual. Sow seed under glass, and if planted in the garden during a sheltered situation. Pkt., 5c.

Bachelor's Button.

(*Centauraea*.)

Known also as Corn Flower, Blue Bottle, Ragged Sailor, etc. Fine for cut flowers. Hardy annual. 2 to 3 feet.

Cyanus—(**Bachelor's Button**)—Pkt., 3c.

Gymnocarpa—White Leaved or Dusty Miller variety. Valuable for ribbon bedding; of silvery whiteness; half hardy perennial; 1 1/2 feet. Pkt., 5c.

LIVINGSTON'S BALSAMS.

(*Lady Slipper or Touch-me-not*.)

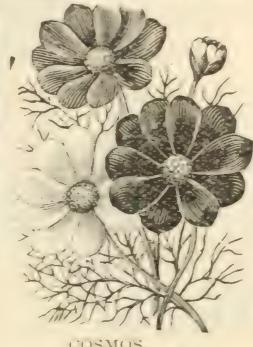
Our climate is well adapted to the growth of the Balsam, and with good rich soil and care, plants and flowers of the greatest excellence are produced. Sow in a frame or bed. Tender annual.

Double Camelia Flowered, Improved—

As double as a rose, which they resemble; almost every shade of color. Pkt., 10c.

Double Spotted—Splendid mixed. Pkt., 5c.

Common Double Mixed—All colors. Pkt., 5c.



COSMOS.

COSMOS.

Plants 4 to 6 feet high, with fine feathery foliage, the flowers, of all shades of rose, purple and pure white, are abundant late in the fall—September to November. Started early in April in a box, and planted out in May, they will flower before frost, and if taken inside will flower freely, until the first of December; fragrant. For cutting this is one of the finest flowers grown.

Pearl White—Pkt., 5c.

Best Colors Mixed—Pkt., 5c.

Mammoth Perfection.

The flowers of this magnificent strain are double the size of the old Cosmos. Colors, white, pink or crimson. Mixed. Blooms very early. Splendid sort for pot culture in the house. All colors mixed. Pkt., 10c.

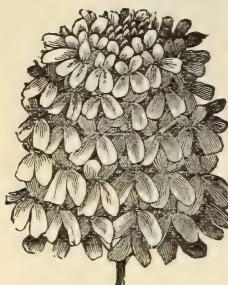


DOUBLE CAMELIA FLOWERED BALSAM.

CANTERBURY BELLS—(Campanula.)

A well known free bloomer of great beauty; effective for beds or pot culture. Flowers of many colors, large bell-shaped. Succeeds best in light, rich soil. Sow seeds early, in the open ground; cover lightly, thin or transplant to twelve inches. Hardy biennial.

Single Varieties—Mixed. Pkt.....3c.

CANDYTUFT

Universally known and cultivated; considered indispensable for cutting. All the varieties look best in beds or masses. Seeds sown in autumn produce flowers early in the spring; when sown in April, flower from June to September and some of the sorts till frost comes. All the varieties are hardy and easy to cultivate; hardy annual; one foot high.

White—Oz., 20c; pkt.....3c

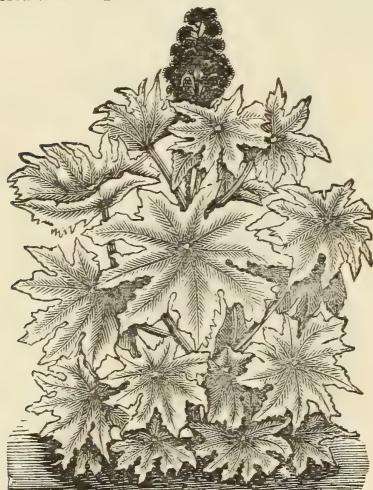
Mixed Colors—Oz., 20c; pkt.....3c

Tom Thumb—Only 4 to 6 inches; blooms freely from June till frost; fine for edgings. Pkt.....5c

COBAEA.

A fine rapid growing climber, with handsome foliage, and large bell shaped flowers, green at first, but rapidly changing to a beautiful deep violet blue. Seeds should be started in hot beds, or by a warm window in the house, in rather dry soil, as they are apt to rot in open ground. In sowing place the seed edge down, and do not water unless the soil becomes very dry.

Scandens —Pkt.....5c



CASTOR BEAN.

CASTOR OIL BEANS—(RICINUS.)

Stately strong growing plants, with very ornamental foliage, particularly well adapted as center plants of groups of Cannas, Caladiums, Dahlias, etc.; of very quick growth in rich soil. Plant where they are required. Tender annual, 4 to 15 feet high.

Common—Oz., 5c; pkt., 3c.

Giganteus—Of mammoth size. Oz., 15c; pkt., 5c.

CACALLIA—(TASSEL FLOWER.)

Also known as "Flora's Paint Brush." Of easy culture; scarlet and golden yellow tassel-shaped; blossoms from July to October. Sow early in the spring. Hardy annual, 1½ feet high; valuable for small bouquets. Mixed, pkt., 5c.

GOLEUS.

Highly ornamental plants, in an endless variety of colors and shading. Indispensable in edgings and carpet bedding, or as single specimens.

Mixed—Splendid collection. Pkt.....25c

COCKSCOMB—(CELOSIA.)

Highly ornamental plants. The scarlet and crimson are the most brilliant and rich. To produce fine combs the soil cannot be too rich; should be 3 feet apart. Tender annual, 2 feet high. Fine mixed colors. Pkt., 5c.



CARNATION PINKS.

Carnation Pinks.

This lovely flower, known to everybody, succeeds in light, rich soil, and will give better results from seed if grown from slips of old plants. The seed we offer is from the best German growers, and cannot fail to please any one.

Extra Choice Mixed—Pkt., 15c.

New Marguerite—This grand new variety has caused quite a sensation among florists and all lovers of flowers. With its introduction we can now have this exquisite flower in bloom, with all its sweetness of perfume, coloring and shapeliness in a few months from seed. Pkt., 5c.

CALENDULA—(POT MARIGOLD.)

Free blooming and attractive plants, growing well in all situations; from one to two feet in height. Hardy annual.

Fine Mixed—Pkt., 3c.

Prince of Orange—Florets are striped with a very intense orange; a profuse bloomer. Pkt., 3c.

CYPRESS VINE—(IPOMOEA)

A most beautiful climber, with delicate dark green feathery foliage, and an abundance of bright, star-shaped, rose, scarlet and white blossoms, which in the bright sunshine presents a mass of beauty. Planted by the side of veranda, tree or stakes, and trained properly, nothing is prettier. The seeds will sprout more readily if very warm water be poured on the ground after sowing.

Scarlet and White Mixed—Pkt., 3c.

CANNA.

The Cannas are desirable, not only for the beauty of their spikes of flowers, but for their highly ornamental leaves. They make superb beds for the lawn, giving our grounds in the north a tropical appearance exceedingly pleasant. There are several varieties; the leaves of some being entirely green, while in others the leaf-stem, midrib and veins are red. In cold climates it is well to grow young plants in pots under glass. Soak the seeds thoroughly before planting, and keep in a warm spot; or, better, take a file and cut through the outside covering, so as to let the moisture inside and thereby hasten germination. The roots can be kept in the cellar over winter.

Crozy's Large Flowered Dwarf French
—Dwarf in habit. Early bloomers; very remarkable for beauty of both foliage and flowers; excellent also for growing in pots forcing. Mixed, pkt., 10c.

Common Mixed—Including many varieties, oz., 25c; pkt., 5c.

Canna Roots—See bulb list in this catalogue.

DOUBLE DAISY.

The Daisy is a charming little plant for edgings and borders. Give it a cool, partially shaded place. Sow seeds very early. The flowers are abundant in early spring, and may be made to flower later by the use of water.

Finest Mixed—Pkt., 5c.

Pure White—Pkt., 10c.

Eschscholtzia—(California Poppy.)

Blossoms about two inches in diameter, of many brilliant and showy colors. A bed of Eschscholtzia in the sun-shine makes a blaze of color. Sow where the plants are wanted to bloom, as they do

not bear transplanting. Thin to six inches apart. Half hardy perennial; one foot high.

Splendid Mixed—Pkt., 5c.



CALIFORNIA POPPY.

Forget-Me-Not—(Myosotis.)

The Forget-Me-Not is an old and favorite plant, bearing clusters of star shaped, delicate blue flowers, with white and yellow eyes. It flourishes best in a moist, shady situation, and is in constant bloom nearly the whole season. If the seeds be sown in autumn it will succeed best and flower earlier in spring. Hardy perennial; 6 inches long.

Alpestris—Blue. Pkt., 5c.

FOUR O'CLOCK—(Marvel of Peru.)

Old-fashioned, but none the less beautiful. Plant large, requires four feet of space; makes a pretty hedge. Flowers are funnel-shaped, white, red and striped; very fragrant and opens about four o'clock in the afternoon, remaining open all the night. Sow in open ground. Hardy annual. Mixed—Pkt., 3c.

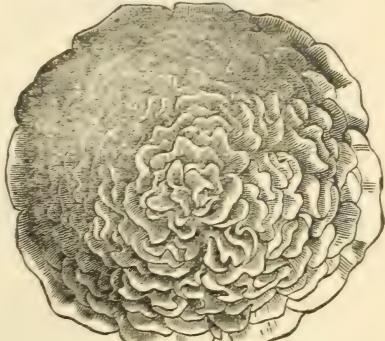
GOURDS

Small, Ornamental Sorts.

A great variety of curiously formed and marked fruit; the vines are of rapid growth, and with luxuriant foliage, adapted for covering screens, arbors, etc. Height, 10 to 15 feet.

Mixed—Many beautiful varieties; $\frac{1}{2}$ oz., 20c; pkt., 5c.

For other varieties of Gourds see Vegetable List.

HOLLYHOCK.

The seed we offer of this very handsome flower has been saved from the best named collections. The flowers are as double as the rose; of many

shades of color, from deep yellow, red and purple, to pure white. Plant the seed in June or July, in open ground; and in the autumn, when the plants have made five leaves, transplant to permanent position, three feet apart. The following summer they will bloom. Hardy perennial, five feet high.

Double Pure White—Pkt. 5c

Extra Choice Mixed—Pkt. 5c

❖ ❖ HELIOTROPE ❖ ❖

A well-known and popular plant; fine for bedding, vases, baskets, and for pot culture in winter. Flowers purple, borne in trusses and exceedingly fragrant. Delights in light, rich soil. May be propagated from cuttings. Half hardy perennial.

Extra Choice Mixed—Pkt. 5c

❖ ICE PLANT ❖

A singular looking plant, with thick, fleshy leaves, which have the appearance of being covered with thick crystals of ice. Start early in pots and transplant into light, sandy soil, in a warm situation. Tender annual.

Ice Plant—(*Mesembryanthemum Cristallinum*)—

Pkt. 5c

❖ ❖ LOBELIA ❖ ❖

Exceedingly pretty, profuse blooming plants, of great value to flower garden; their delicate, drooping habit, and the profusion of their charming little flowers, render them extremely ornamental. Very fine for hanging baskets. Half hardy annual.

Crystal Palace—Dark blue; splendid sort. Pkt. 5c.



NEW IMPERIAL JAPANESE MORNING GLORIES.

The leaves of this new strain are large, **heart-shaped**, many of them a rich dark color, **marbled with silvery white or yellow**. The flowers are really gigantic, double the size of the ordinary kind. Their varieties of color are infinite, running from snowy white through all possible shades of blue, and of red, from palest pink to darkest reds and purples. They are streaked, mottled, striped, marbled and bordered in wonderful fashion. The Imperial Japanese Morning Glories are of the easiest culture. But as the seed is hard or flinty, before sowing treat as follows: Draw a sharp knife across one edge of the seed, just enough to cut through the shell, then soak in luke-warm water long enough to have seed swell to double the size they were when dry. Sow in May in a warm sunny position in good rich soil, and give plenty of water in dry weather. Price, per pkt. 5c; oz. 25c.

The old-fashioned and best known annual climber we possess.

Mixed—Pkt. 3c; oz., 7c; 1/4 lb., 20c.

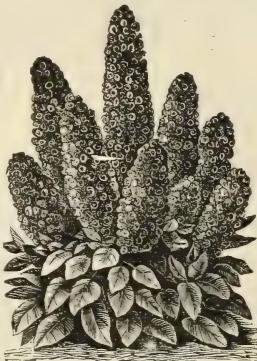
Dwarf Morning Glory—Beautiful, showy plants, rich colored flowers. Hardy annual. Mixed. Pkt., 3c, oz., 10c.

MOON FLOWER.

Beautiful climbers and exceedingly attractive when mixed with other climbers. Flowers of graceful form, very large and pure white. They are good for the green house, and especially good for verandas, trellis, stumps, arbors, etc. Start plants in the house in March. Ten feet. Tender annual.

Grandiflora—(White Seeded)—Pkt. 10c.

❖ MIGNONETTE ❖



MIGNONETTE MACHET.

bloom early in spring. Hardy annual; perennial if protected. One foot high.

Sweet Mignonette—Large flowering. Per oz., 15c; pkt., 3c.

Golden Queen—A mass of golden yellow. Pkt., 5c.

Machet—Very dwarf; vigorous growth; massive spikes of deliciously scented red flowers. Pkt., 5c.



NASTURTIUM.

NASTURTIUMS—*Tropaeolum.*

Half hardy annuals. Flowers of all different shades of yellow and red. The dwarf are round headed plants about a foot high, and make very nice beds for the garden. A bed of Dwarf Nasturtiums is very brilliant and attractive.

TOM THUMB OR DWARF.

The King of Tom Thumbs—Intense scarlet flowers; dark foliage. Pkt., 5c.

Yellow—Pure light yellow. Pkt., 3c.

Rose—Delicate shade; attractive. Pkt., 5c.

Beauty—Light scarlet, splashed with light yellow. Pkt., 3c.

King Theodore—Dark, scarlet maroon. Pkt., 5c.

Empress of India—Brilliant crimson; dark foliage. Pkt., 5c.

Mixed—Many varieties, $\frac{1}{2}$ oz., 10c; oz., 15c; pkt., 3c.

MAJUS, OR TALL NASTURTIUMS.

The Tall Nasturtium is one of our prettiest and best trailers; it blooms more freely than dwarf varieties.

Yellow, Scarlet, Crimson, Purple, Chocolate, Scarlet Striped, Maroon—Each, per ptk., 3c.

Mixed—Many sorts; $\frac{1}{2}$ oz., 10c; oz., 15c; ptk., 3c.

Seven 5-cent packets Nasturtiums for 25 cents.

MARIGOLD.

A well-known magnificent plant, with handsome double flowers of rich, beautiful colors, and neat, compact green foliage, producing a splendid effect in almost any situation. Half hardy annual.

Mixed Colors—Two feet. Pkt., 3c.

NICOTIANA—*TOBACCO PLANT.*

Large, beautiful, deliciously fragrant, white flowers, of easy culture. If lifted in the fall will bloom during winter. Height about 2 feet.

Allinis—Sweet scented Tobacco Plant. Pkt., 3c.



NEW STAR PHLOX.

PORTULACA.

(ROSE MOSS.)

**DOUBLE PORTULACA.**

Makes a dazzling display of beauty, many hued, highly colored. In bloom from about the 1st of July till frost. Plant in the open ground after it has become warm in light sandy soil and in a dry situation. Bed should be exposed to the sun. Tender annual.

Finest Single Mixed—Many beautiful sorts. Pkt., 3c.

Double Rose Flowered—Perfectly double, of many brilliant colors, as well as striped. Mixed colors. Pkt., 10c.

POPPIES.

Hardy annual; 2 feet. Cannot be transplanted.

Double—Double flowers; mixed colors. Pkt., 3c.

The Shirley—This beautiful new single Poppy runs in colors from purest white through the most delicate shades of rose, pink and carmine to deep crimson. Very interesting to watch the flowers develop. Pkt., 3c.

PHLOX DRUMONDII.

The Phlox Drummondii, for a splendid mass of colors and a constant display, is not excelled by any other annual or perennial. It has every desirable quality for this purpose. The colors range from the purest white to the deepest blood purple or crimson. Seed may be sown in the open ground in May, or in a hot bed or cold frame earlier; and during the summer and autumn they make a most brilliant bed of showy, yet delicate flowers. A good ribbon bed of Phlox is a most dazzling sight, and there is nothing so cheap. Set the plants a foot apart.

Deep Blood Purple—Pkt., 3c.

Brilliant Scarlet—Pkt., 3c.

New Double White—Pkt., 10c.

Choicer Mixed—Oz., $\frac{1}{2}$ oz., 30c; ptk., 3c.

GRANDIFLORA.

This class is much larger than the common kind, both in the flower and plant. We offer a fine collection of brilliant shades. Pkt., 5c.

STAR PHLOX—*(Cuspidata.)*

The center of each petal runs out into a point one-quarter to one-third of an inch beyond the edge, which gives the flowers a regular star-like form. This variety is of compact habit and bears large umbels of flowers. The beautiful velvety florets, running through shades of scarlet, pink, violet, salmon and white, produces an effect not excelled by any other flower. Pkt., 10c.

Mr. Nicholas Hitt, Marioncounty, Mo., writes Jan. 20, 1898: "Your Beets done better with me than any other Beet I ever had before, and your Livingston's Tip Top Musk Melons are the best tasting melons, so the people say who buy them."

LIVINGSTON'S PANSIES.



and elsewhere, regardless of cost. We do not hesitate to recommend them with the greatest confidence. No one can offer better stock, although their prices may be higher. At the prices quoted we give liberal sized packets, according to the quality of the seed.

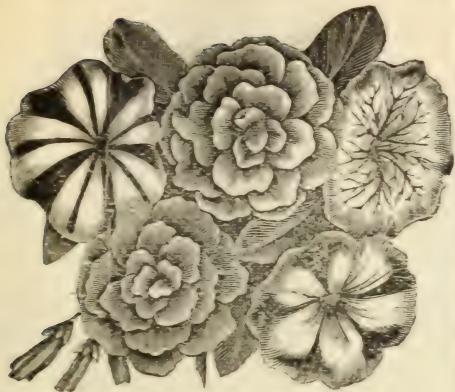
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|---|-----|
| Fawn Colored —Pkt..... | 5c |
| King of the Blacks —The darkest Pansy known. Pkt..... | 5c |
| Silver Margined —Extra fine. Pkt..... | 5c |
| Snow Queen —(Snow Flake) Satiny white, light yellow center. Pkt..... | 5c |
| Blue —All shades. Pkt..... | 5c |
| Yellow Gem —Pure Yellow; very fine. Pkt..... | 5c |
| Dark Purple —Rich purple; very fine. Pkt. | 10c |
| Mahogany Colored —A very fine variety. Pkt..... | 5c |
| Striped and Mottled —A lovely class, of various shades and stripes. Pkt..... | 10c |
| Red Flowered Victoria —A new color among Pansies, deep claret red. They come very true from seed. Pkt..... | 10c |
| Havana Brown —Rich glossy brown..... | 5c |
| Lord Beaconsfield —Deep purple violet, shading upwards to nearly white. Pkt..... | 5c |
| Bronze Colored —Very good. Pkt..... | 5c |
| Livingston's Superb Mixture —This truly "superb" mixture has been produced by careful selection and combining of a number of high priced collections grown by specialists, and we feel confident it is simply impossible to excel it. It combines all that is good in other mixtures. Oz., \$10.00; pkt..... | 25c |

The Pansy is a popular flower with florists and amateurs, giving abundance of bloom until after severe frosts, enduring our hard winters with safety, and greeting us in the earliest spring with a profusion of bright blossoms. Pansy seed may be sown in the hot-bed or open ground; if sown in the spring get it in as early as possible, so as to have the plants in bloom during the early rains. If sown in October, they will flower in early spring. To have good flowers the plants should be vigorous and make rapid growth. Young plants give the largest flowers. The following varieties and collections are secured from specialties in Europe

| | |
|---|-----|
| Good Quality, Mixed —Oz., \$1.50; pkt..... | 5c |
| Large Flowering —Very fine mixed, embracing all the separate colors of German Pansies. Oz., \$3.00; pkt..... | 10c |

GIANT PANSIES.

| | |
|--|-----|
| Giant Trimardeau —Altogether distinct and beautiful; the flowers are larger than any hitherto produced. An endless variety of beautiful shades. Mixed. Pkt..... | 10c |
| Giant Yellow —(Trimardeau) — The flowers are of gigantic size; a bright golden yellow, spotted with black in center. Pkt..... | 10c |
| Giant White —(Trimardeau)—A very beautiful new Pansy, with purple eye. Pkt..... | 10c |
| Giant Odier —(Five blotched)—A beautiful strain of various colored, large, handsome, perfect formed flowers; dark spot on each petal; pkt..... | 15c |
| Bugnot's Superb Blotched —(Mixed)—This is a very large flowering race, in which the plants are vigorous, with short stalks bearing well above the foliage; large flowers of brilliant and varied coloring. Pkt..... | 25c |
| Any seven 5-cent packets of Pansy Seeds for 25c. | |



PETUNIA.

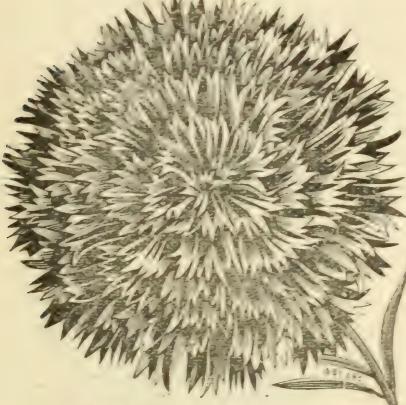
Petunias are unsurpassed, if indeed equaled, for massing in beds. Their richness of color, duration of bloom and easy culture will always render them welcome and popular. They do well sown in open border in the spring or by sowing in hot bed they come earlier into bloom. Be careful not to cover the small seeds too deeply. Hardy annual; $1\frac{1}{4}$ feet high.

General Dodd's—New, darkest red..... 5c

Pure White—Very fine. Pkt..... 5c

Inimitable Blotched and Striped Single—Pkt..... 3c

Finest Mixed Single—First quality. Pkt..... 3c



PINK—(DIANTHUS.)

All this beautiful class of pinks are hardy, and will flower the second season if not allowed to flower too freely the first season. Sow in a hot bed, transplant to 6 inches apart. If not kept too warm are useful for house plants. Double varieties mixed produce flowers as large as the Carnation of Picotee. Hardy annual.

China or India Pink (Double)—Superb mixed. Pkt..... 3c

Imperial Pink—More double than the China Pink. Mixed. Pkt..... 5c

Double Japan Pink—Very beautiful; mixed colors in great variety. One foot. Pkt..... 5c

Mr. Wm. S. Dawson, Cole, county, Mo., writes, April 9, 1898: "I received my plants in due time and found them all right and in good condition. Many thanks to you for your promptness."

SWEET WILLIAM.

(DIANTHUS BARBATUS.)



A very beautiful class of plants of extreme richness and diversity of color. The varieties have been greatly improved of late years. One and one-half feet. Hardy perennials.

Fine Mixed—All colors. Pkt. ... 5c

SNAPDRAGON.

The Antirrhinum or Snapdragon, is an old favorite border plant, with curiously shaped flowers, with a finely marked throat. They have been much improved and now are really magnificent flowers. They will blossom the first season from seed sown in the spring. Two feet high. **Mixed**—All colors. Pkt. 3c



STOCKS.

The stocks have been favorites for years, but of late they have been greatly improved, so that they are now almost indispensable where fine display is wanted. They are not only beautiful, but very fragrant. They can be sown in the open ground or in the hot-bed, but transplanting must be done when plants are quite small. If shaded during the hottest part of the day and watered in the evening it will add to the size and beauty of the blossoms. Set plants one foot apart.

Dwarf German Ten Weeks—Large flowering double. **Pure White, Brilliant Rose, Crimson, Purple, and Choice Mixed**. Each, 10c. per package; any three for 25c.

* SALVIA. *

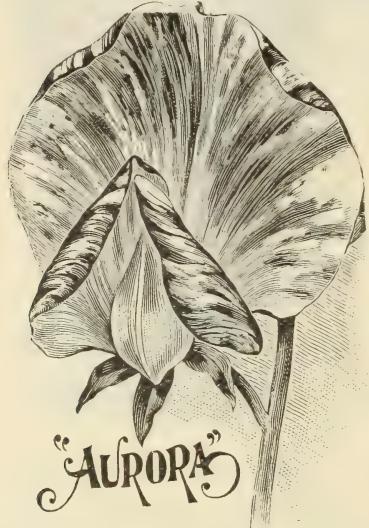
Splendens, or Scarlet Sage—Most gorgeous plants with spikes of intensely scarlet flowers. The flower spikes measure from 10 to 12 inches in length, and there are as many as 200 spikes on a well grown plant. They continue to flower profusely all summer. Pkt. 10c

Livingston's Sweet Peas

HOW TO GROW SWEET PEAS SUCCESSFULLY.

Sow the seed in deep furrows, the bottom of which should be at least five inches below the level of the soil. Cover the seed only one inch, after which the furrow is still four inches deep. When the plants are two or three inches high, fill in another inch or so around the plants, always leaving a slight depression at the base of the plants, so the water, either from a shower or watering, will go directly to the roots, thoroughly soaking the soil. They must not be allowed to get dry. As dry and hot weather approaches, cover the soil along the row with plenty of old leaves, straw or hay, to assist in retaining an even moisture and temperature for the roots.

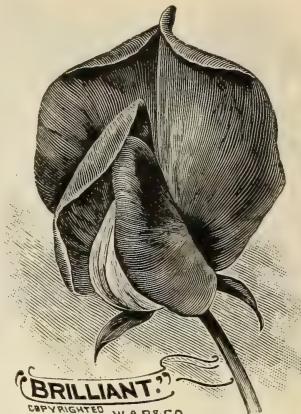
Sow very early, even if all the frost is not yet out of the ground; say about last of March for Iowa, and proportionately early north or south. Sow the seeds about an inch apart in the row, and five feet between rows. Let rows stand north and south, if possible. Set wire netting or bushes to climb on early, and transplant while young, plants to fill up gaps in the row, should any occur. Prepare soil thoroughly in spring, using a liberal quantity of old, well rotten manure. A dressing of bone meal, applied after plants are well up, will sustain growth and bloom late in the season. Cut blossoms every day. Remove all seed-pods as fast as they appear, to prolong the blooming season.



AURORA.

Flowers of fine substance, full expanded form, gigantic in size. Flowers are borne three or four on a stem; stems extra long and strong. Vines vigorous in growth and bloom most profusely. Color effect is gorgeous; both standard and wings are flaked and striped on a white ground, with bright orange-salmon. Pkt., 5c; oz., 10c.

Charles Jonson, Des Moines, Iowa, July 18, 1898, says: "From 1½ pecks of Alaska Peas bought of you this spring I have picked 38 bushels of pods, some of which brought \$1.50 per bushel."



BRILLIANT.
COPYRIGHTED 1896 W.A.B&CO.

Scarlet Sweet Pea—**BRILLIANT.**

This supplies the need for a bright Scarlet Sweet Pea of improved form. The flowers are of good substance; medium to large in size; the broad standard is inclined to hood, while the wings are well spread. The color is of rich, bright crimson-scarlet. The wings nearly equal the standard in richness of color. The flowers are borne three on a stem. A most important point is that the flowers retain their full brilliancy of color under the hottest sun—never becoming marbled or burned. Pkt., 5c; oz., 10c.



DAYBREAK.
COPYRIGHTED 1896
W.A.B&CO.

Daybreak—A fine new Sweet Pea. It is quite distinct, a good germinator, a thrifty grower and a fine bloomer. In color it has a white ground, and on the reverse of the standard is a crimson scarlet cloud, which shows through in the fine veins and net work, giving to the center of the front of the standard a fine watered effect, the outer margins being white. The wings are white and sometimes slightly flaked with crimson. Pkt., 5c; oz., 10c.

Mrs. Lucinda Hamilton, Elk county, Kansas, writes, Dec. 17, 1897: "I can not get seeds here as reliable as yours are, and I would like to get some of the same kind I used to get from you. I intend to send somewhere for seeds this spring, and yours were always better than any others that I could get; I would like a price list."



NEW DWARF "CUPID."

New Dwarf Cupid—First Dwarf Sweet Pea introduced; only about five inches in height, and has a profusion of beautiful white blossoms, with the fragrance, size, length of stem and substance of the common kinds. The buds, which run two and three to each stem, all open about the same time, so that in picking none need be wasted. Sown in rows two feet apart, they will meet between the rows and form a solid mass of dark green foliage and waxy white bloom, a sight to behold. As a pot plant it is a beauty, hanging over the sides of the pot in a graceful manner. Desirable for borders, or along side of walks. For button-hole bouquet equal to the violet, Rose or Carnation. Pkt., 5c; oz., 15c.

New Cupids—See second page of cover.

Borreton—A fine Pea, having deep maroon flowers. Pkt., 5c; oz., 10c.

Queen of England—Pure white. Pkt., 3c; oz., 7c.

Miss Blanch Ferry—An improvement of the "Painted Lady," being larger and coming very early. Very hardy, a vigorous grower, very sweet scented. Blossoms profusely. Pink and white. Pkt., 3c; oz., 7c; 1/4 lb., 15c; lb., 30c.

Carmine Invincible—Shining, crimson scarlet. Pkt., 5c; oz., 10c.

Isa Eckford—Creamy white and rosy pink. Pkt., 3c; oz., 7c.

Emily Henderson—Pure white flowers of remarkable substance, being on long, stiff stems, and are very large. Plant robust, branching, producing an abundance of bloom. Very early and remains a long time in bearing; very fragrant. Pkt., 3c; oz., 7c; 1/4 lb., 15c; lb., 30c.

Captain of the Blues—Standard purple mauve; wings lighter, shading to blue. Large, effective and handsome. Pkt., 5c.

Butterfly—Pale gray, with distinct marlinskin edge. Pkt., 3c; oz., 7c; 1/4 lb., 15c.

Painted Lady—Rose and white. The beautiful old pink variety, so popular with all who have grown Sweet Peas. Pkt., 3c; oz., 7c; 1/4 lb., 15c.

Lottie Eckford—Standard rose and white, edged with blue. Pkt., 5c.

Gaiety—Striped crimson on white. Pkt., 3c; oz., 7c; 1/4 lb., 15c.

Purple Prince—Maroon, with wings purple. Pkt., 3c; oz., 7c; 1/4 lb., 15c.

Eckford's Gilt Edge Mixture—This mixture contains all that is desirable in recent introductions, also many of the latest novelties. It certainly cannot be improved upon. The blossoms of this strain are fully double the size of the common kinds. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c.

Eckford's Fine Mixed—Does not contain so great a number of varieties as the "Gilt Edge" mixture, but will give very good results, and is so cheap that any one can use it by the pound. Pkt., 5c; oz., 7c; 1/4 lb., 15c; lb., 30c.

"Cheap" Mixed—In order to meet competition we have made it up of certain common sorts that seed more freely and offer it at 10c per lb., postpaid; oz., 3c; 1/4 oz., 1c; 1/2 lb., 15c. By express, at purchaser's expense, lb., 25c; 5 lb., \$1.50.

GIANT WHITE BLANCHE BURPEE.



BLANCHE BURPEE is pronounced by everybody who has seen it as the finest ever produced, being a **perfectly finished flower** of the purest white.

It may be had in bloom very early if sown in pots or boxes in January, and transplanted to the open ground as soon as the ground is fit. Should be planted thinly, being a **most robust grower**, and this will allow the plant to **properly develop**.

BLANCHE BURPEE received a wonderful reception and sale last season. Per pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 35c.

SENSITIVE PLANT.

A really pretty plant and affords a great deal of amusement. A plant or two reserved for the house will afford a great deal of pleasure during the winter. Start a young plant in a pot, and plunge the pot in the earth to the rim, removing it to the house in the autumn. Pkt..... 5c

25 CENT

Vegetable Seed Collection.

SEVEN LARGE PACKETS.

One each of Ex. Ey. Wakefield Cabbage, Evergreen Cucumber, Iceberg Lettuce, Pineapple Melon, Prize Taker Onion, Cincinnati Market Radish and Livingston's Royal Red Tomato.

.. VERBENA ..

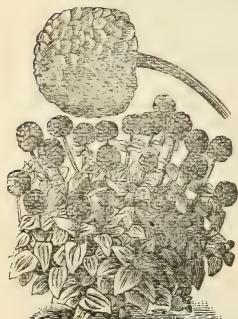
Seedlings are stronger and more vigorous than plants from cuttings, and are usually fragrant, especially the light colors. The seeds sprout very unevenly, some not coming up for six weeks after others. They flower perfectly well from seed sown in spring. If started in the house in pots or shallow boxes in winter, they will bloom sooner. Transplant as fast as plants are two inches high, two feet apart each way.



NEW MAMMOTH VERBENA.

New Mammoth—This distinct and superb class of Verbenas is a remarkable improvement on the other varieties. It produces flowers of enormous size, the florets being fully one inch in diameter, with clearly defined margins and white eyes. Our illustration, which is about one-half natural size, represents extremely well the size, fine form and delicate shading. Mixed pkt. 10c
Scarlet Defiance—True deep scarlet. Pkt. 5c
Pure White—Quite true. Pkt. 5c
Striped Varieties—A great variety. Pkt. 5c
Choicest Mixed—Saved only from the most beautiful named flowers. Pkt. 10c
Fine Mixed—Pkt. 5c

... ZINNIA ...



ZINNIA POMPON.

Pompon—Charming, long very double flowers; having colors ranging from pure white, through creams and buffs to clear yellow. There are also tints ranging from softest pink to deepest crimson. Pkt. 5c
Alba—Double pure white. Pkt. 5c
Large Flowering—Finest double mixed many shades and colors. Pkt. 5c

Miscellaneous List of Flower Seeds.

The following list of flower seeds are some of the best known and hardly need be described.

Seven 5-cent packets for 25c.
 Twelve 3-cent packets for 25c.

| | |
|---|----|
| ABRONIA —Trailing habit. Mixed Colors ... | 3 |
| ASPERULA —Adapted for bouquets; bright blue. Azuræa Setosa | 5 |
| ADONIS —Scarlet flowers; handsome. Mixed ... | 3 |
| A D L U M I A —(Mountain Fringe)—Attractive climbing plant | 5 |
| AGROSTEMMA —Fretty for edgings. Rosea . 3 | |
| ANAGALIS —Adapted for borders or rockeries. Mixed | 3 |
| AMMOBIUM —A good everlasting. Alatum ... 5 | |
| A M A R A N T H U S —Handsome foliage. All kinds , mixed..... | 3 |
| ALONIA —For mixed beds. Linifolia 5c | |
| A C C R O C L I N U M —A beautiful everlasting. Mixed | 5 |
| BALSAM APPLE —Very curious vine and fruit..... | 5 |
| CALLIRHOE —Rich velvet purple blossoms, white eyes. Mixed | 5 |
| CENTRANTHUS —Beautiful for masses of borders. Mixed | 3 |
| COLUMBINE —(<i>Aquilegia</i>)—Beautiful in form and color. Mixed | 3 |
| CATCHFLY —Free flowering; red, rose, pink-like blossom. Mixed | 3 |
| CANARY BIRD FLOWER —A beautiful climber, yellow blossom..... | 5 |
| COLLISSIA —Pretty, free blooming, hardy annual. Mixed | 3 |
| CALLIOPSIS —All shades, from yellow to reddish brown. Mixed | 3 |
| DAHLIA —Large late flower. Double mixed | 10 |
| DIGITALIS (Foxglove)—Handsome ornamental plants. Mixed | 3 |
| EUPHORBIA —An ornamental leaved plant. Variegated | 3 |
| EVENING PRIMROSE —Fine flowering plants, open evening. Lamarkiana 3 | |
| EUTOKA —Excellent for cutting. Viscida 3 | |
| GYPSOPHILA —Small white flowers for bouquets. Elegans | 3 |
| GODETIA —Free and constant bloomer. Mixed | 3 |
| Gilia —Finely cut foliage. Celestial blue blossoms . Mixed | 3 |
| GOMPHRENA —Everlasting, retains shape and color. Mixed | 3 |
| GAILLARDIA —Very large showy flowers. Constant bloomers. Mixed | 3 |
| HIBISCUS —Flowers cream colored, purple center. Africanus | 3 |
| HELICHRYSUM —A very fine everlasting flower. Mixed | 3 |
| HYACINTH BEAN —A splendid climber; purple and lilac flowers. Mixed | 3 |
| LINUM —A good bedding plant; saucer shaped scarlet flowers. Rubrum | 3 |
| LUPINUS (Lupins)—Long graceful spikes of bloom; rich colors. Mixed | 3 |
| LEPTOSIPHON —Good for marginal beds and borders. Mixed | 3 |
| LARKSPUR —Beautiful spikes of double flowers in many colors. Mixed | 3 |
| LANTANA —A brush covered with blossoms, followed by berries. Mixed | 3 |
| MIMULUS —(Monkey Flower)—Beautiful spotted blossoms. Fine Mixed | 10 |
| MAURANDIA —A delicate climber, with small flowers. Mixed | 3 |
| MOURNING BRIDE (Scabiosa) — Handsome flower; very sweet..... | 3 |

| | | | |
|---|---|--|---|
| NEMOPHILA (Love Grove)—For border or pot culture; flowers exquisite. Mixed | 3 | THUNBERGIA —Trailing plant for hanging basket, vases, etc. Mixed | 5 |
| NOLANA —Trailing plant for baskets, rock work and beds. Mixed | 3 | WHITLAVIA —A good plant for baskets, vases, or pots. Mixed | 5 |
| ORNAMENTAL GRASSES (Mixed) —Small pkt., 5c; large pkt., 10c. | | XERANTHEMUM —An everlasting of neat, compact habit. Mixed | 5 |
| RHODANTHE —Fine for winter bouquets. Mixed | 3 | | |
| SUNFLOWER, Dwarf Double —A good plant for screen. | 3 | | |
| SUNFLOWER, Mammoth Russian —Largest, most productive. Oz., 5c; $\frac{1}{4}$ lb., 10c; pkt., 3 | | | |
| SALPIGLOYSIS (Velvety Flower)—Rich colored, funnel shaped flowers. Mixed | 3 | | |
| SCHIZANTHUS —Bright colors; useful for bouquets. Mixed | 3 | | |
| SMILAX —One of the most graceful climbers in cultivation. Mixed | 5 | | |
| SEDMUM (Stone Crop)—For rockery or hanging baskets. Mixed | 5 | | |
| VINCA —Glossy green foliage; beautiful flowers. Mixed | 5 | | |
| VIOLET —For border or rock work; requires shade. Blue. Pkt. | 5 | | |

FLOWER POTS.

We carry a very complete stock of these, and can supply in large or small quantities. All orders to be shipped should amount to at least \$1.00, when we pack and deliver to our depot free of cost.

| POTS. | EACH. | DOZ. |
|---------------|-------|------|
| 4 inch | .04 | .40 |
| 5 inch | .05 | .60 |
| 6 inch | .07 | .75 |
| 7 inch | .09 | 1.00 |
| 8 inch | .15 | |
| 9 inch | .20 | |
| 10 inch | .25 | |
| 12 inch | .50 | |
| 15 inch | 1.00 | |

Saucers one-third the prices for Pots.

• SUMMER FLOWERING BULBS. •

All Bulbs sent prepaid unless otherwise noted.

AMARYLLIS.

Lily shaped flowers of great beauty.

Formossima (Jacobean Lily)—Flowers are of deep crimson; color very striking. Each, 10c.

Atamasco—Fine for bedding. White, suffused with rose. Each, 5c; 3 for 10c.

Johnsonii—Flowers large crimson, striped with white; very fine; small bulbs. Each, 25c.

AMPELOPSIS—(Ivy.)

Boston or Japan Ivy (Veitchii)—A variety that has tendrils so strong they cling to any kind of a wall, wood, brick or stone; large, strong plants. Each, 25c.

Virginia Creeper, American Ivy—A perfectly hardy variety under all conditions. An exceedingly rapid grower. Each, 20c; three for 50c.

CLEMATIS VINE.

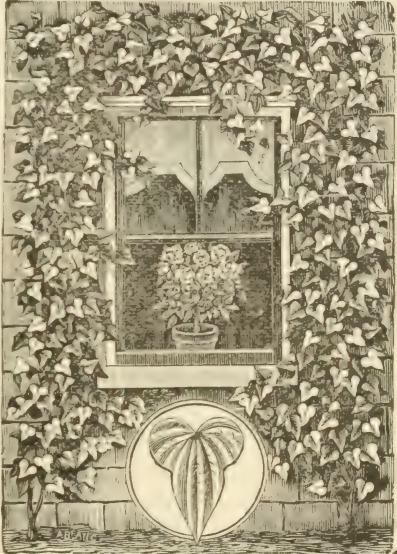
The Clematis must have a sunny location and good culture. Dig the ground deep, make it rich, and water whenever needed.

Madam Edward Andre—This new variety has created a great sensation, in this country as well as abroad, where it received much praise and many awards. It is of a brilliant crimson, a color in Clematis heretofore unknown. It was first exhibited at the World's Fair. It is a rapid grower, hardy and very prolific in bloom. Each, 50c.

Paniculata—A fine, hardy variety, having small sweet scented flowers borne in immense numbers. One specimen of which we know furnished a bushel basket full of bloom at one time and yet they were hardly missed from the vine. The flowers appear in September—a time when they are very much appreciated. This variety is one of the best Clematis to use as a screen as it grows up very rapidly and has glossy green leaves. Each, 20c. Extra strong, 30c.

Jackmanii—Large, rich, deep purple flowers. A very popular sort everywhere. Very hardy, but does best if given some protection. Strong plants, that will bloom some this season. Each 50c. Extra strong plants, 75c.

Henryii—The leading white variety. Strong grower, having flowers of large size and creamy white. Large plants. Each, 50c. Extra strong plants, 75c.

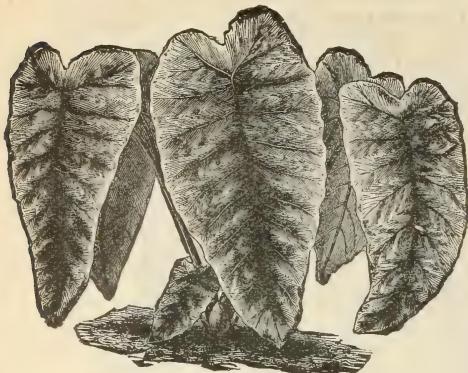


CINNAMON VINE.

CINNAMON VINE.

This beautiful climber is perfectly hardy, the stem dying down every autumn, but growing up again so rapidly in the spring as to completely cover any trellis or arbor in the season. It is as easily cultivated as the Madeira Vine, has no insect enemies, and is not affected by drought; and, with its beautiful, heart-shaped leaves, bright green peculiar foliage, and clusters of delicate white flowers, it is one of the most desirable climbers in cultivation. Strong roots. Each, 8c; two for 15c; four for 25c.

Mrs. H. H. McCorkle, Madison county, Iowa, writes, Jan. 25, 1898: "I send to you as I know your seeds are good. Was well pleased with the seeds I bought of you two years ago. Did not order seeds of you last season, and regretted it, as the seeds I bought here did not grow."



CALADIUM.

CALADIUM—(Elephant's Ear.)

Caladium—A beautiful, large, showy foliage plant, immense leaves, frequently four feet by two and one-half feet. Plant often attains a height of five feet, the immense leaves producing a tropical effect.

Small Bulbs, 6 to 8 inches around, each, 10c; doz., \$1.00.

Medium Bulbs, 8 to 10 inches around, each, 20c; doz., \$2.00.

Large Bulbs, 10 to 12 inches around, each, 50c.

❖ **CANNAS** ❖
LARGE FLOWERING FRENCH.

These are noted for great beauty and the size of flower as well as handsome foliage. They are growing in popularity each season and the introduction of new varieties of unusual merit, in recent years, has only tended to increase the demand for this truly magnificent bedding plant. We offer some of the choicest sorts of recent introduction, also those of known merit and distinctive peculiarities.

FLAMINGO—A superb variety. Flowers very large and of fine, even rounded form. Color, deep, glowing crimson, exceedingly bright and attractive. Plant vigorous, with massive dark green foliage. Sure to become a most popular bedder, and one of the best for indoor blooming in winter. 3½ feet. Each, 15c; doz., \$1.50.

J. C. Vaughan—Purplish foliage, flower large, color clear, deep vermillion orange, with a satiny lustre on the petals, contrasting brilliantly with the dark foliage. 4½ feet. Each, 10c; doz., \$1.00.

Alphonse Bouvier—One of the grandest outdoor bedders of all Cannas. Luxuriant grower, foliage bright green, flowers a vivid crimson; a profuse bloomer, beginning early, and is a continuous mass of crimson the entire season; 4 to 6 feet. Each, 10c; doz., \$1.00.

New Yellow Canna Burbank—A California Seedling of great merit; giant orchid-like, canary yellow, double the size of Madam Crozy. A splendid bedding plant with luxuriant broad leaves. Each, 10c; doz., \$1.00.

Austria—One of the grand orchid-like flowers of pure canary yellow, with but a few traces of small reddish brown spots in the center of the two inside petals. Each, 10c; doz., \$1.00.

Italia—Magnificent mammoth orchid-like flowers of bright orange scarlet, with broad golden yellow border, borne on long, heavy stems well above the foliage; foliage large and heavy. Each, 10c; doz., \$1.00.

Madame Crozy—This grand sort has flowers of deepest vermillion red, with a distinct gold border; are almost constantly in bloom, and have large individual flowers. Height, 4 feet. Each, 10c; doz., \$1.00.

Florence Vaughan—A striking, lemon yellow, spotted with bright red; free bloomer; has large spikes of flowers; foliage light green. Height, 4 feet. Each, 10c; doz., \$1.00.

Queen Charlotte—A splendid orange scarlet flower with wide border of golden yellow on each petal. Very distinct and striking. Flowers borne just right height above the broad, luxuriant leaves. Height, 3 feet. Each, 10c; doz., \$1.00.

Chas. Henderson—One of the finest. Rich crimson, perfect form, a wonderful bloomer, fine bedding sort. Height, 4 feet. Each, 10c; doz., \$1.00.

Vice-President Luizet—3½ feet. Foliage green. Excellent for massing; rich cherry red with carmine reflex. Each, 15c; doz., \$1.50.

Mlle. Berat—A most distinct and novel variety, being the nearest approach to a pink yet introduced. It is of a very soft shade of rosy carmine and is very pleasing and unique. Foliage green. 4 feet. Each, 20c; 3 for 50c.

Beaute Poitevine—3½ feet. Green foliage; flowers bright, rich crimson and with erect flower spikes. A fine edder. Each, 20c; 3 for 50c.

Souvenir d' Antoine Crozy—3 feet. Green foliage. This is a perfect gem and in our estimation the finest gilt-edged variety yet introduced; the flowers are large, well rounded petals, which are of intense scarlet-crimson, rich and dazzling and are ordered with a road, rich, golden-yellow border. Each, 15c; doz., \$1.50.

L. E. Balley—Identical with **Florence Vaughan**, save that it is lighter in color, and dots lighter and smaller. The best of its color. Each, 10c; doz., \$1.00.



LARGE FLOWERING CANNAS.

Paul Meylan—3½ feet. Foliage green. A pleasing shade of orange red with golden edge. A very desirable free blooming variety. Each, 15c; doz., \$1.50.

F. Neuvessel—4½ feet. One of the best of the newer sorts, a pleasing shade of carmine, of good size, foliage green, with bronzy markings, very effective. Each, 15c; doz., \$1.50.

CANNAS, Mixed, all Colors of Flowers and Leaves—10c each; 6 for 50c. By express—25 for \$1.50; 50 for \$2.75.

Red Shades, Mixed—Each, 15c; 5 for 50c. By express—25 for \$1.50; 50 for \$2.75.

Yellow Shades, Mixed—Each, 15c; 5 for 50c. By express—25 for \$1.50; 50 for \$2.75.

Mixed Bronze—Each, 15c; 10 for \$1.00. By express—12 for \$1.00; 25 for \$1.75; 50 for \$3.00.

DAHLIAS.

The Dahlia has always been a favorite for autumnal flowering. The flowers are large, symmetrical and perfect, the color so brilliant and varied that they will always be popular. They should be set out 3 feet apart after all danger of frost is over. Support the plants by tying to stakes. Our collection includes the best and most desirable colors and shades, are procured from the best growers only and cannot fail to please.

Twelve New Varieties.

One of each for only \$1.50.

Patrick Henry—Pure white. Beyond all question this is the best white Cactus Dahlia yet introduced. Flowers are very large and pure in color. Plant 6 feet high. Each, 15c; doz., \$1.50.

Lady Mildmay—A very beautiful flower. White ground shaded to pale lilac. Very large and full; a free bloomer. Height, 3 feet. Each, 15c; doz., \$1.50.

Miss Dodd—Purest yellow. Of exquisite form and color. Remarkably handsome flower. Height, 3 feet. Each, 15c; doz., \$1.50.

Maid of Kent (Grand Mogul)—Intense scarlet, variegated with pure white, frequently a solid scarlet. A pure Cactus Dahlia of large size. Extra fine. Height, 4 feet. Each, 15c; doz., \$1.50.

Prince Bismarck—Purple lake. A most pleasing color. Very fine form. One of the best. Height about 3 feet. Each, 15c; doz., \$1.50.

A. D. Livoni—Rich pink. Finely formed. A very handsome flower. Plant about 3 feet. Each, 15c; doz., \$1.50.

Princess Mathilda—Pure white. A large, finely formed variety. So prolific that the whole plant appears one solid mass of white. Plant grows to about 2½ feet. Each, 15c; doz., \$1.50.

Crimson King—Deep crimson. Very constant in color. An early and free bloomer. About 3 feet high. Each, 15c; doz., \$1.50.

Mrs. Hartong—A Cactus Dahlia of very large size and exquisite form. Color light fawn, suffused with pink. Each, 15c; doz., \$1.50.

John Bennett—Buff orange shaded to crimson. Flowers very large and full. Plant about 3 feet. Each, 15c; doz., \$1.50.

Kaiser Wilhelm—One of the grandest sorts in cultivation; of immense size and perfect form. Deep yellow tipped and shaded with cherry red. Plant about 3 feet high. Each, 15c.

London Beauty—Clear purple. Good form. 3 feet. Each, 15c.

One each of the above twelve choice Dahlias only \$1.50. Any six for 80s.

Four Grand New Dahlias.

E. A. Tunnell—A clear, bright red, shaded and striped with pure white; produced on long stems. No two flowers with the same markings are produced. A grand flower. Height about 5 feet. Each, 20c.

John Etliche—A noble flower. By good judges it is pronounced the best red Dahlia to date. A broad-leaved Cactus with long stems. Color a dazzling red, with no shade or variation. Very large and double to the center. Height about 5 feet. Each, 20c.

Prince of India—Very large, often six inches in diameter; and produced in abundance. Flowers of perfect form, remaining full in the center even after outer petals have faded. Color a beautiful, rich, rosy crimson, almost identical with the American Beauty rose, but brighter. Height, 4 feet. Each, 20c.



MRS. W. J. BRYAN. (Half Natural Size.)

Mrs. W. J. Bryan—This grand new Dahlia was originated by a specialist in this line and offered last season for the first time. It has proven a great attraction wherever shown, and is undoubtedly one of the best of recent introduction. Its color is a beautiful pale lavender, changing, when grown in strong light, to rosy lavender. It is a strong, erect grower, with very long, wiry flower stems. The illustration on this page, about half the natural size, gives but a faint idea of the beauty of this noble flower. Height, 4½ feet. Each, 25c.

One each of the above four choice new Dahlias, 75c.

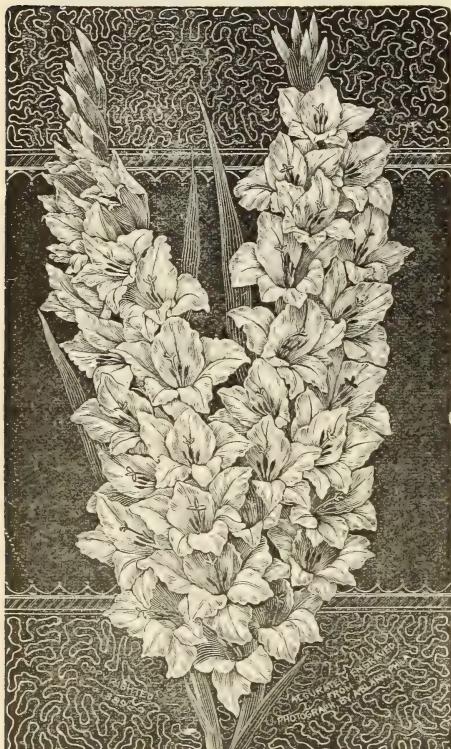
Maderia or Mexican Vine.

A very rapid growing vine, having glossy green leaves of leathery texture, remaining so throughout the entire season. We have used this splendid climber at our home for a number of years, and under all conditions the leaves first forming near the ground have remained fresh and bright until frost. The delicate and very fragrant little blossoms appear in numerous clusters during the latter part of summer, and when in full bloom there is nothing more beautiful or fragrant. If you have never grown this old favorite, or have run out of tubers, let us send you some. Vigorous bulbs, each, 5c; ½ pint, 15c; pt., 25c.

D. H. Masters, Boyd county, Nebraska, writes, March 24, 1897: "You should receive some orders from this locality this spring as it has been a point with me to give your house the best name possible."

GLADIOLUS.

The Gladiolus is one of the most showy and attractive of the summer flowering bulbs. Its varieties are numerous, hardy and easy of culture. They thrive in almost any good soil; plant where they will get plenty of sunlight; set the bulbs 6 to 8 inches apart, large ones 4 inches deep, small ones 2 inches deep; make an early planting, as soon as the ground gets warm and dry, and additional plantings every week until the middle of June for a succession. Its flowers are borne in tall, dense spikes, and in every shade of delicate, rich and brilliant coloring. For cut flowers in vases, for house and table decorations, no flower is more beautiful and none so lasting. The bulbs we offer are of the finest quality, and no better mixtures can be had where fine colors and distinct markings are desired. At the 100 price we do not prepay charges.



GLADIOLUS.

| | Each. | Doz. | 100. |
|-------------------------------------|-------|------|--------|
| Red , of various shades..... | 5 | 25 | \$1.50 |
| White and Light | 5 | 50 | 3.00 |
| Yellow Shades | 5 | 50 | 3.75 |
| Striped and Variegated | 5 | 45 | 3.50 |
| Pink , various shades..... | 5 | 40 | 3.00 |
| Extra Fine Mixed | 3 | 25 | 1.50 |

Lemoine's Hybrid Mixed — The Lemoine's Seeding Gladiolus is sometimes called Butterfly Gladiolus on account of resemblance to a butterfly with beautiful spots on the lower petals. They are indescribably beautiful. Each, 6c; doz., 50; 100, \$4.00.

♦ LILIES ♦



Auratum (Gold Band Lilies of Japan) — Large white flower, each petal marked in the center with wide gold band, spotted with maroon, and the spots stand up like plush. Free bloomer. Hardy. Fine bulbs, each, 25c; smaller size, 15c.

Album — Lovely pure white Lily, slightly tinted with pink at the tips of the petal. Each, 25c.

Rubrum — Rose white, spotted with crimson. Hardy. Each, 20c.

Tenuifolium — Beautiful and perfectly hardy; blooms early; color, lovely vermillion scarlet; very handsome. Each, 20c.

TUBEROSE BULBS.

One of the most delightfully fragrant and beautiful of the summer flowering bulbs. The flowers are waxy white and the sweetest scented flower that grows. The growing plant is fond of light and heat, and must have full sunlight when bedded, and plenty of water after it begins to grow freely, but not too much water when first started, and should not be planted outside before May 1st. The bulbs may be planted at intervals of a week or so to give a succession of bloom.

Excelsior Dwarf Pearl.

Flowers large size; very double; stem two to three feet.

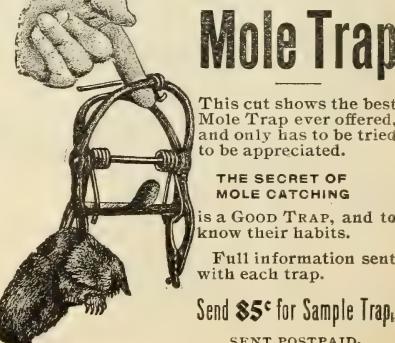
Small Size Bulbs — Plenty large enough to bloom. Each, 3c; 6 for 15c; doz., 30c.

Medium Sized Bulbs — Each, 6c; 3 for 15c; doz., 50c.

Mammoth Bulbs — Especially selected for our retail trade. Each, 10c; three for 20c; doz., 75c. By express, at purchaser's expense, doz., 60c; 100, \$3.00.

Mrs. Nora M. Townsend, Magnet, Mo., writes, Feb. 18, 1897: "I send to you, as I know your seeds are good. I am well pleased with the seeds I got from you last season. (All proved true to name.) Also for your promptness in filling orders."

"OUT O' SIGHT"



VEGETABLE PLANTS, ROOTS, ETC.

Plants are sent only by express, not by mail, and charges are to be paid by purchaser. No order accepted for less than \$1.00 worth of plants. We keep the following kinds on hand, and can ship fresh pulled plants on short notice. Prices subject to change, owing to damage by frosts, etc.

Asparagus Roots—(Ready when ground thaws.) See page 9.

Cabbage, Early—(Ready about April 10th). Early Wakefield, Early Summer, etc. Price per 100, 50c; per 1,000, \$3.50.

40c; per 1,000, \$2.00.

Premium Flat Dutch, Drumhead, etc. Per 100, 40c; per 1,000, \$2.00.

Cauliflower—(Ready about May 1st). Early Snowball, Early Erfurt. Price per 100, \$1.00; per 1,000, \$7.00.

Celery—(Ready about May 1st). White Plume, Golden Heart, etc. Price per 100, 60c; per 1,000, \$4.00. After June 20th, per 1,000, \$3.00.

Pepper—(Ready about May 15th). Ruby King, Bull Nose, Sweet Mountain, Cayenne. Price per 100, \$1.00.

* * FRUIT PLANTS * *

Prices—Our prices are as low as first-class plants can be sold, in quantities mentioned. Good plants put up in first-class shape cannot be sold at shoddy prices without loss to somebody. Cheap plants, as a rule, mean poor plants. We sell 50 plants at the 100 rates; 500 at the 1,000 rate. No plants will be sent C. O. D.

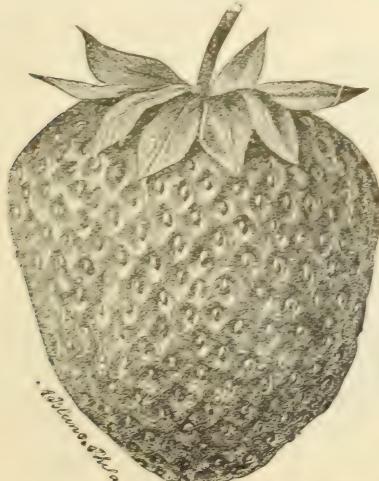
Large Orders—Persons wishing 10,000 or more will do well to write us for special low prices.

Good Packing—We pack in first-class shape. Plants trimmed, roots straight and tied in bundles. Packed in good clean moss; no charge for packing.

Orders Filled in rotation as received. Late orders, of course, are last filled. When ordering late, please give second choice, to avoid delay of writing you, as we never substitute without permission.

STRAWBERRIES.

Strawberry Culturists—a book that gives everything in detail and nicely illustrated. Price, 25c.



Horse Radish Sets—(Ready when ground thaws). Price per 100, 75c; per 1,000, \$6.00.

Egg Plant—(Ready about May 15th). New York Improved. Price per 100, \$1.00.

Rhubarb Roots—(Ready when ground thaws). See page 29.

Tomato—(Ready about May 1st). Dwarf Champion, Livingston's eBeauty, Perfection, Stone, etc. Price per 100, 75c; per 1,000, \$5.00.

Sweet Potato—(Ready about May 1st). Yellow Jersey, Yellow Nansemond. Per 100, 25c; per 1,000, \$2.00.

Write for special prices on plants in quantity, as we sometimes have a surplus on which we are glad to name low price; besides, we always make prices according to quantity wanted.

Varieties marked P are pistillate and must have a variety marked S, or staminate, planted near them as a fertilizer, say about every third or fourth row. The staminate varieties will fruit if planted alone, but they do not bear so well, as a rule, as the pistillate sorts.

Wm. Belt—(S). Mid season. Considered "the best variety ever introduced" by the best authority in the United States. If you try but one let it be Wm. Belt, a giant in size, very productive, brilliant red, quality extra fine; good shipper. Doz., 25c; 100, 75c; 1,000, \$3.00.

Glen Mary—(S). Early. A choice, extra fine berry of large size; bright, glossy crimson; brings highest price in any market; good in all ways. Doz., 25c; 100, 75c; 1,000, \$3.00.

Greenville—(P). Early. A market berry of high order; ripens early; holds out well; brightest crimson. Doz., 25c; 100, 75c; 1,000, \$2.50.

Brandywine—(S). Medium late. Extra large, handsome, firm and solid, of superior quality, and one of the best canning sorts on account of its firmness and deep color. Doz., 25c; 100, 75c; 1,000, \$3.00.

The Seaford—(P). The plant is as large as Bubach. A more vigorous grower, ripens much faster and several days earlier. Outside color deep red, bright and glossy; flesh a solid red; flavor, good with little acid; a superior variety of high grade offered for the first time last spring. Doz., 60c; 100, for \$2.00.

Bismarck—The plant resembles Bubach in general appearance but is more robust and stocky, with the same ironclad foliage, and is even more productive. The berries are very large, obtuse conical, seldom or never cockscombed, bright scarlet, firm and solid and of excellent quality. It colors all over, with no green tip, and ships well. Doz., 35c; 100, \$1.00; 1,000, \$10.00.

Nick Ohmer—The plant is **very large and stocky**, sending out plenty of very strong runners. It is probably not surpassed in healthy, vigorous growth and **great productiveness** by any variety. It has a perfect blossom. The fruit is of the very largest size, a giant among strawberries. It is never misshapen. Its only departure from the regular, roundish conical form is when, under high culture, it is somewhat triangular. It is dark glossy red, firm and of excellent flavor. Doz., \$1.00; 100, \$5.00. Post-paid.

Clyde—(S). A perfect bloomer and a very strong grower, long roots, numerous runners. Berries large to very large, conical, bright scarlet, firm. Season early to quite late, and immensely productive. Berries regular in shape and size.

STRAWBERRIES—Continued.

Resists drought well because of its long roots, and has clean, healthy, foliage free from rust. Doz., 25c; 100, 75c—prepaid; 1,000, \$3.00—not prepaid.

Cyclone—(S). A berry that is likely to become a favorite, being very productive; berries larger than the average; good fertilizer and plant maker and is said to do well on different kinds of soil. Doz., 25c; 100, 75c—prepaid; 1,000, \$2.75.

Haverland—(P). A good grower, healthy and hardy, producing large crops of large, long, handsome berries of very fair quality. It is not a good shipper. For home market a profitable berry to grow. Doz., 25c; 100, 75c; prepaid; 1,000, \$2.75, not prepaid.

Bubach—(P). This is perhaps the most popular of any of the very large berries that have been well tested, generally, over our country. Of extra quality, but too soft for a market berry. Doz., 25c; 100, 75c, prepaid; 1,000, \$2.75, not prepaid.

Parker Earl—(S). Under favorable circumstances this is certainly the most productive berry. But must have rich soil, high cultivation, and plenty of water, or it cannot mature its crop. The fruit is fair size, bright red, handsome cone shaped with slight neck, good quality, moderately firm, fairly good shipper. It makes but few plants, but they are very large. Doz., 30c; 100, \$1.00, prepaid; 1,000, \$5.00, not prepaid.

Lovett—(S). Quite productive. A handsome berry of medium size, a good shipper, and of very fair quality. Doz., 25c; 100, 75c, prepaid; 1,000, \$2.25, not prepaid.

Warfield—(P). We place this first on the list, because after being well tested over about every state in the Union, it is considered one of the best market berries grown. All things being considered that go to make a profitable market berry—four rows of this with two rows of B. Wood or Robinson as a fertilizer—will produce more good marketable fruit than any other we can now name. Doz., 25c; 100, 75c, prepaid; 1,000, \$2.25, not prepaid.

Beder Wood—(S)—Holds first place as a good fertilizer for most pistillate, and one of the best bearers of excellent fruit of good size and quality; commences ripening early and lasts a long time. Doz., 25c; 100, 80c, prepaid; 1,000, \$2.25, not prepaid.

Bisel—(P). A vigorous grower, healthy and hardy, makes plenty of plants, has long roots which enable it to stand drought well. Fruit is large, good quality, firm, a good shipper; color is deep glossy red; very productive. Season same as Crescent continues in fruit a long time, very uniform in shape and size; fruit held up from ground on strong, heavy fruit stems. Adapts itself to all soils and climates; a decided advantage in any strawberry. Doz., 25c; 100, 75c, prepaid; 1,000, \$2.25, not prepaid.

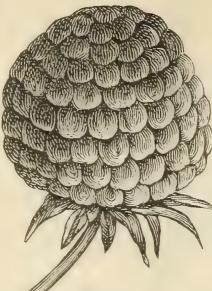
CONDENSED LIST,**Other Varieties Strawberries.**

By mail. By mail. By express.

| | | | |
|---------------------------|----|-----|-------|
| (P) Crescent | 12 | 100 | 1,000 |
| (S) Saunders | 25 | .75 | 2.25 |
| (S) Gardner | 25 | .75 | 2.50 |
| (S) Splendid | 25 | .75 | 2.25 |
| (S) Jesse | 25 | .75 | 2.75 |
| (P) Princeton Chief | 25 | .75 | 2.25 |
| (P) Robinson | 25 | .75 | 2.25 |

50 at 100 rates; 500 at 1,000 rates. 500 composed of several varieties, the cost must be figured at the 100 rate. If sent by express, 25c may be deducted from the prices given by the 100. At the 1,000 price purchaser pays the express charges when received.

Low prices on 10,000 or more Strawberry Plants.

RASPBERRIES.

NEMAH.

Nemaha—The fruit is almost identical with Gregg. A large berry, late in ripening; canes more hardy; makes more tips; very productive; will stand cold winters much better. Per doz., 50c, postpaid; by express, not prepaid, per 100, \$1.25; per 1,000, \$8.00.

Kansas—It has proven hardy everywhere tried, and is highly praised by all. The plant is a very strong grower, healthy and hardy; it produces plenty of strong, heavy tip plants, with very long roots. The fruit is about the size of Gregg, jet black; ripens a little later than the Tyler. The berry is firm, a good shipper, and of good quality. Per doz., 50c, postpaid; by express, not prepaid, per 1,000, \$1.25; per 1,000, \$8.00.

Gregg—This black cap does much better in a clay or timber soil than it does on prairie soil. A fine large popular late sort. Per doz., 50c, postpaid; by express, not prepaid, per 100, \$1.25; per 1,000, \$8.00.

Older—Originated in Iowa years ago and has stood all our test winters. The hardest and most productive of any. The berry is coal black, about the size of the Gregg. Ripens about three days earlier than Tyler or Palmer and about six days earlier than Gregg, and lasts the longest of any. Decidedly the richest and best berry when canned. It stands without a rival in resisting cold and drought. In northern Iowa, northern Illinois and Wisconsin. Try it; you will not be disappointed. Per doz., 50c, postpaid; by express, not prepaid, per 100, \$1.25; per 1,000, \$8.00.

Palmer—The best and most productive of any of our very early black cap raspberries. Three pickings will take about all the fruit. It produces a heavy crop of good sized berries that you can get into market the first of any, and get the best prices. Per doz., 50c, postpaid; by express, not prepaid, per 100, \$1.25; per 1,000, \$7.00.

Other Choice Varieties of Raspberries.

| | By Mail. | By Exp. | By Exp. |
|---------------------------------------|----------|---------|---------|
| | Doz. | 100 | 1,000 |
| Tyler | 50 | \$1.25 | \$7.00 |
| Souhegan early black cap | 50 | 1.25 | 7.00 |
| Ohio medium black cap | 50 | 1.25 | 8.00 |
| Shaffer , late red | 75 | 2.00 | |
| Wallace Red | \$2.50 | 20.00 | |

BLACKBERRIES.

SNYDER.

Snyder—Esteemed in the coldest portions of the country on account of its extreme hardiness. Berries of medium size, but produced in abundance; sweet, juicy, and when fully ripe without a hard core. Well adapted to the Northwest, where other varieties are injured in severe winters. Doz., 50c; 100, \$1.25.

Try our Fruit Plants. They'll suit.

GRASS SEEDS.

Write for prices in quantity.



Kentucky Blue Grass.

Orchard Grass—Can be used in mixed pasture, as it comes very early; also in shaded situations. Postpaid, lb., 35c. By express, pk., 60c; bu., \$2.00.

Timothy—Too well known to need description. Write for price, stating quantity.

MIXED LAWN SEED.

We have a formula for mixing this which we have used very successfully for years. By mixing it ourselves we know that only the best qualities of the different seeds are used. We always recommend its use for this latitude. Many other grasses might be used, but they are not hardy enough for our trying climate, and it is a useless expenditure trying to get them to grow here. Price, postpaid, lb., 35c; 3 lbs., \$1.00; not prepaid, lb., 20c; 3 lbs., 50c; 10 lbs., \$1.50.

MILLET.

In Millet we carry none but the German. It is the best, being an immense cropper. Sow one

LIVINGSTON'S SELECTED SEED CORN.

The following varieties have been chosen, as each one has distinctive features peculiar to it alone. They are not untried varieties, so you need not hesitate to use them liberally, after selecting such as are suitable to your purpose. We carry our stocks of seed corn in the ear, and only shell as needed to fill orders. This we have found the most satisfactory way to handle it. Our tests are taken right out of the shelled corn, as that is the only fair way to do it. Prices include bags and free delivery to railway or express companies here, purchaser to pay charges when corn is received.

Seed Corn at 50 cents per bushel costs 7c per acre to seed; at \$1.00, 14c per acre, or only about one-third the cost of seeding to oats, and the corn crop is always of more value than oats. It don't pay to plant poor seed when we offer selected seed corn at such low prices.

bushel to an acre for hay. Write for price, stating quantity.

BROME GRASS.

Hungarian Brome (*Bromus Inermis*).—

Has long been cultivated in the dry plains of Southern Europe, and has proved best adapted to the subarid regions of our Western States. Will stand long drouths and produce heavy crops in dry sections where other grasses would perish. Sow about thirty pounds to the acre.

Postpaid, lb., 35c. Write for price in quantity.

CLOVER SEED.

Try our choice re-cleaned Clover Seed. We often take out enough foul stuff in cleaning seed to make a difference of 50 to 75 cents in value on a bushel. This you lose when buying it in the rough.

ALFALFA CLOVER.

It requires a sandy soil having a gravelly subsoil, as, while it can stand almost any amount of drought, it will not stand it to have water remain any length of time about its roots at the surface. It is a prodigious cropper, yielding as high as five to seven tons of hay per acre. It can be cut three and four times during the season after being well started. If sown early, it is best to sow it alone, and it will take care of itself. If, however, seeding should be delayed, or the ground is weedy, it is best to sow with a light seeding of barley or oats, and cut them as soon as possible. This will protect the Alfalfa until it gets a start of the weeds. You can afford to lose one year getting this clover started, as it more than makes up for it in heavy yield. After well established it is good for an indefinite number of years. Never sow less than twenty-five pounds of good, clean seed per acre. Thin sowing produces thick and coarse stalks, not relished by stock. Postpaid, lb., 25c. Write for prices in quantities.

White Dutch—One of the best in mixed pasture for cattle, and is an indispensable requisite in Parks and lawns. Sow at the rate of five to six lbs. to an acre. Postpaid, lb., 35c.

Alslike (Swedish)—Sow it in sloughs and wet places. It will grow a good crop of hay where you have possibly only grown "bull grass" heretofore. It has fibrous roots (no tap root), hence does not heave by frost. Is valuable for pasture when mixed with other grasses. Esteemed highly for bee pasture. Sow six lbs. to the acre. Postpaid, lb., 25c.

Medium or Common Red—Best general purpose variety. Especially good for hay. Write for prices, stating quantity.

Mammoth (Sapling or English)—Desirable for mixed hay crop, and for plowing under as fertilizer. Write for price, stating quantity.

Pride of the North, or Early Golden Dent—Originated in extreme northern Iowa. Matures perfectly in ninety days; is out of danger of frost in seventy-five days; very hardy and prolific; ears small, uniform; just the right size to feed cattle; small cob; kernels closely set on the cob, and are long and compact. Prepaid, pkt., 5c; qt., 25c. Not prepaid, pk., 35c; bu., \$1.15; two bu., \$2.00.

Iowa Gold Mine—Small to medium sized ears, of lightly yellow color. Very deep grain, shells easy. Stock are fond of it, as owing to the soft grain it is easily eaten. Medium yielder. We advise its use only for early feeding, and not for main crop or to market in ear. Prepaid, pkt., 5c; qt., 25c; not prepaid, pk., 35c; bu., \$1.00.

Yellow Leaming—A pure glossy yellow variety earing low on a strong, heavy stalk; ears have square and deep grains; ripens quite early, frequently maturing in one hundred days after

FOR LARGER QUANTITIES THAN QUOTED ABOVE WRITE FOR SPECIAL PRICES.

SEED CORN—Continued.

planting. Hundreds of so-called new sorts might well be discarded in favor of the good old Leaming corn, of which we have a good stock to offer. Prepaid, pkt., 5c; qt., 25c; not prepaid, pk., 35c; bu., \$1.15; two bu., \$2.00.

Sweet Corn for Fodder.

There is nothing better for green feed, or for curing for winter, than sweet corn. Cattle highly relish it, and when fed on it keep in fine condition and give an abundance of milk. Sow in drills or broadcast. Per pk., 40c; bu., \$1.00.



Legal Tender Yellow Dent—It is the best main crop yellow dent corn we have. Being large and deep grained it needs the entire season to mature it. We do not advise planting later than May 15th. Some, however, planted it as late as the 20th to 25th, and have matured a splendid crop of it. It yields immensely. Ears 10 to 12 inches in length; grains $\frac{1}{4}$ to $\frac{3}{4}$ inches in length, and run well up to 20 rows on the ear. They have a glossy orange-yellow body, with a lemon-yellow cap. A load of Legal Tender is a thing of beauty. Try a bag of it. The extra yield over common corn will more than pay for it, and you can sell seed of it to your neighbors and make a handsome profit. Prepaid, pkt., 5c; qt., 25c; not prepaid, pk., 35c; bu., \$1.15; bag (two bu.), \$2.00.

Champion White Pearl—A thoroughbred pure white, medium sized, early dent variety, suitable for general crop. Matures in ninety to one hundred days; is very prolific; the grain is extra deep and wide; small cob. Prepaid, pkt., 5c; qt., 25c; not prepaid, pk., 35c; bu., \$1.15; two bu., \$2.00.

Iowa Silver Mine—A pure white corn and cob; large, deep grain, maturing in about one hundred days. Much resembling the Champion White Pearl. Pkt., 5c; qt., 25c; pk., 40c; bu., \$1.50.

New Red Beauty

Very early, productive; great depth of grain and small cob; very crisp and sweet. It is claimed it will pop in four months from time of planting. It is really a beauty and a good family popcorn. Pkt., 5c; oz., 10c; pt., 25c, postpaid.

Mapledale Prolific

The most prolific variety grown, a single stalk having yielded 15 ears; average 4 to 6 ears to a stalk. The kernels nearly clear white in color; stalks grow 6 feet high—the ears are large in size, averaging 6 inches, while many reach 8 inches in length. It pops pure white and is of good quality. Pkt., 5c; pt., 20c.

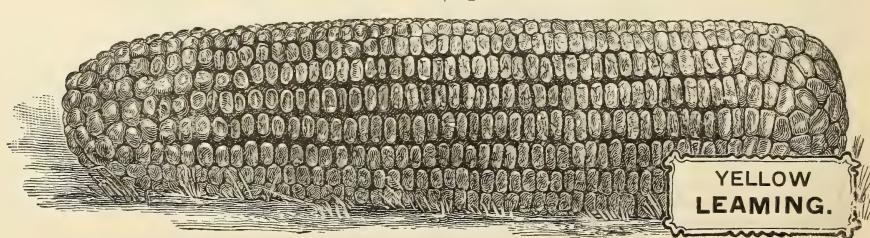
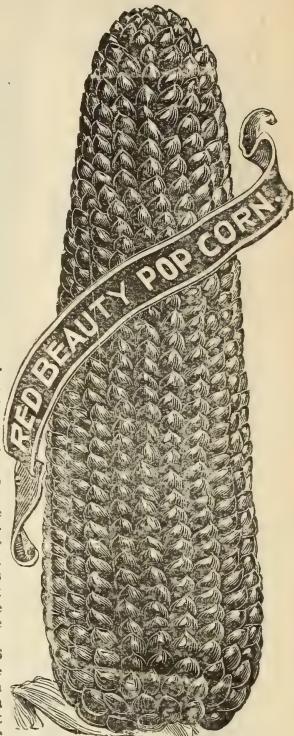
Monarch White Rice—An improved strain of the good old Rice variety, having a much larger ear, and will no doubt yield much more per acre. The very best sort to grow for market. Postpaid per pkt., 5c; pt., 20c; qt., 35c; not prepaid, 10 lbs., 50c; 25 lbs., \$1.00.

Queen's Golden—A beautiful golden yellow sort having large grains and popping to immense size, but requires a very hot fire to produce it to perfection. Pkt., 5c; pt., 20c, postpaid.

Common Rice—Pkt., 5c; pt., 15c.

New Striped—Distinct and showy. A white grain with various colored stripes around each. Quality very good. Pkt., 5c; pt., 25c.

One packet each of above six varieties of Pop Corn, only 20c.



FOR LARGER QUANTITIES THAN QUOTED ABOVE WRITE FOR SPECIAL PRICES.

Mr. Frederick Schwicker, Hucksville, N. Y., April 6, 1898, writes: "I have used your seeds for years from G. & Sons, before I saw your catalogue advertised."

WHEAT.



VELVET CHAFF
BLUE STEM.

Velvet Chaff Blue Stem (Spring).—A distinct variety, having white, velvet like chaff: heads beardless. The stem, just below the head, when when green, is a beautiful blue bloom, which disappears as the wheat ripens. both wheat and straw assuming a bright golden tint. The kernel is of the hard variety, similar to the Scotch Fife, but is far more productive and one of the best Spring wheats for milling; entirely free from rust. Pkt., 5c; lb., 20c, postpaid; pk., 40c; bu., \$1.25.

Saskatchewan Fife (Spring)—Has all the general characteristics of Scotch Fife, from which it is descended by careful selections. It excels in earliness, hardiness, productiveness, and freedom from smut and all diseases. It is highly endorsed by leading wheat growers. Pkt., 5c; lb., 20c, postpaid; pk., 50c; bu., \$1.50.

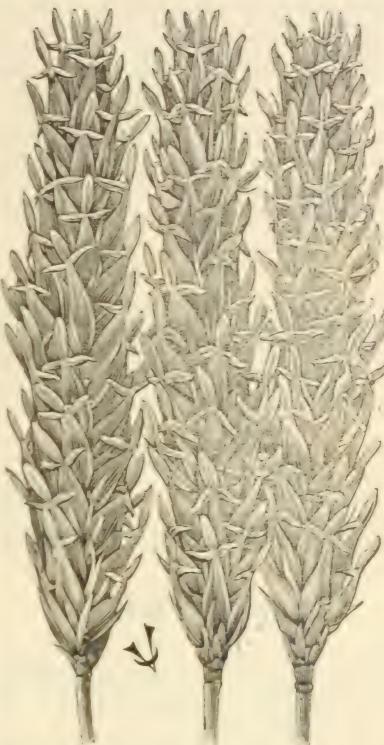
Kaffir Corn.

The Kaffir Corn is grown principally in this section as a fodder crop, but in those parts of the country subject to severe drouths and consequent failure of corn and other grain crops it is becoming more and more popular. It is a splendid food for poultry and is an excellent substitute for corn in every way. For the grain sow in rows 3 feet apart, 3 to 5 pounds of seed to the acre. For fodder sow $\frac{1}{2}$ bushel to 1 bushel, either broadcast or in drills.

White Kaffir Corn—Grows from 4 to 5 feet high, making a straight, upright growth, with numerous wide leaves. The stalks keep green and are brittle and juicy, making excellent fodder, either green or dried, which is highly relished by cattle, horses and mules. The seed being white it is preferred for making meal or flour. Being white it is preferred Postpaid, pkt., 5c; lb., 15c. Not prepaid, 10 lbs., 40c.

Red Kaffir Corn—This grows taller than the White, the stalks are slender but more juicy and very leafy. The heads are long, slender, compact and grow erect; they measure from 1 to 2 feet. The seed is red, smaller than that of the White, and rather hard and brittle. This variety is one of the best drouth resisters among all the non-saccharine Sorghums. It does well on poor land and yields well. It ripens a little earlier than the White variety and yields much heavier. It is highly recommended by the Kansas Agricultural College at Manhattan. Postpaid, pkt., 5c; lb., 20c. Not prepaid, 10 lbs., 40c; bu. (50 lbs.), \$1.00.

Choice Seed Barley



White Hulless (Ideal Barley)—There is a growing demand for barley for feeding purposes, used in the same manner as oats, either to be fed alone or to be used in mixed feeds. It is only or recent years that the great value of barley as feed has become appreciated. The difficulty with most varieties for feeding has been the great vicious beards, common to most sorts, would get into the mouth and cause it to become sore. In the new White Hulless Barley this objection is overcome, as when threshed it comes out free from beards and hulls much the same as wheat, a beautiful white grain, weighing 60 to 65 pounds to the measured bushel; heads are 3 inches long, strong straw, very productive. Our stock of this comes from the introducers and will doubtless be true. Large packet, 10c; lb., 25c, postpaid; pk., 40c; bu., \$1.50.

Mansury—A fine 6-rowed barley, produced in long heads. It heads the list in productiveness. We have sold more of this variety than any other sort. Large packet, 5c; per lb., 15c, postpaid; pk., 20c; bu., 70c; 2 bu., \$1.30.

Highland Chief—A 2-rowed barley having grains of remarkable size and fine appearance. It is a vigorous grower; is less likely to be damaged by wet than most kinds, as it is much more closely covered by broad awns or spikelets, consequently does not lose color by wet; a very important point with a malting sort. It is very productive. Large pkt., 5c; lb., 15c, postpaid; pk., 25c; bu., 75c.

Mr. A. W. Dennis, Ringgold county, Iowa, writes April 15, 1898: "I received wheat alright. I think it was really better than the sample you sent. It grew nicely. The field is green as a meadow and a good 'stand'."

BUCKWHEAT.

Should be sown about the middle of June broadcast, using from 3 to 4 pecks to the acre.

Japanese—This sort has proven much earlier and more productive than any other variety, often yielding fifty bushels to an acre some have told us. The grains are very large. Postpaid, lb., 15c. Write for price, stating quantity.

Silver Hull—Grain is a light gray color, rounder than the common variety, has a much thinner husk, matures earlier, and yields a half more to the acre. Postpaid, lb., 15c. Write for price, stating quantity.

Common—Write for price, stating quantity.

SPRING RYE.

Is especially desirable for a catch crop, as it is early enough to be sown after you have found some other crop is going to fail, and still make a paying crop. It often yields as high as 40 bushels to an acre, which ordinarily pays better than wheat. Postpaid, large pkt., 10c; lb., 25c. Write for price by the bushel.

SEED OATS.

We usually have several varieties of good seed oats, such as Lincoln, New Zealand, etc., and we would be pleased to send samples and quote prices on request to those who will write, stating quantity.

FIELD PEAS.

'Peas could be made to bring more nitrogen to the soils of this country every year than is now purchased annually by the farmers at a cost of millions of dollars.'—Year-book of the U. S. Department of Agriculture.

For the northern states there is no crop of greater value than field peas and is more neglected, which can only be attributed to a lack of knowledge as to its merits. Whether for fodder, in mixture with oats, sown at the rate of two bushels each per acre, or the peas sown alone at the rate of three bushels per acre, for plowing under, there is no crop that we can so strongly recommend for more extended culture. Like all leguminous crops, peas have the power of extracting nitrogen from the air, and the soil from which a crop of peas has been harvested is richer in nitrogen than before the peas were sown upon it, and there is no kind of live stock on the farm to which peas and oats in mixture cannot be fed with positive advantage.

We can supply either the **White or Blue Field Peas**. Please write for prices, stating quantity.

BROOM CORN.

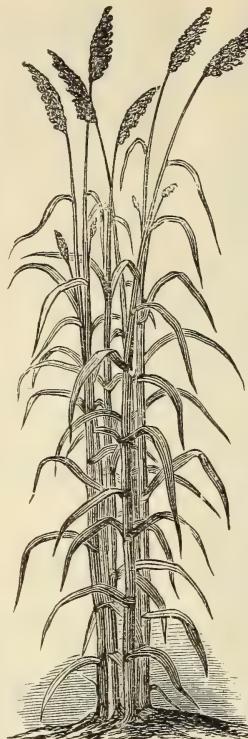
"Broom Corn and Brooms"—Tells all about this subject in detail—50c.

Improved Evergreen—The favorite sort. The brush is fine and of good length. Yields well and does not turn red in the field before cutting, being a green variety of brush. Not prepaid, pk., 40c; bu., \$1.50.

Dwarf Broom Corn—Grows from 3 to 4 feet high having straight, smooth brush. Is principally used in making whisks and brushes. Postpaid, pkt., 10c; lb., 25c. Not prepaid, pk., \$1.00; bu., \$3.00.

Extra Early Japan—Will mature in 75 days. The earliest of varieties. Can be planted after wheat and oats and make a crop. Postpaid, pkt., 10c; lb., 25c. Not prepaid, pk., \$1.00; bu., \$3.00.

SUGAR CANE.



The Sugar Cane is just beginning to be known as one of the most valuable plants for fodder. We sold several leading farmers, the past season, as much as 1,000 pounds each. Sow same time as Millet; at the rate of 100 to 125 pounds to the acre.

Let stand until fully ripe, or, say, about Oct. 1st to 10th. Put in large ricks, but not in the barn. The weather does not affect it. All kinds of stock are fond of it, and it is especially good for milch cows. **The yield is enormous.**

Early Amber

—This is a popular sort, coming earliest of all, makes finest quality of beautiful amber syrup and is best for fodder purposes. Postpaid, lb., 20c. Write for special prices and sample, stating quantity.

FLAX SEED

Common—Choice for sowing; market price.

"Flax Culture"—A Practical Book—30c.

Mr. Jacob Lahr, Adams county, Iowa, writes, May 20, 1898: "I think farmers ought to sow more cane seed. Last year I had sowed about 1½ acres in a slough where the cut worms had taken the corn and sowed it as recommended. I commenced cutting and feeding on it about the 4th or 5th of September, and fed three head of cattle for two months on this small patch. The fact is, if I had not had the cane feed I should have had to cut up and feed half of my corncrop. People wondered at the immense yield."

DWARF ESSEX

RAPE



Sow it during summer for fall pasture. It is especially good for sheep, but all kinds of stock are fond of it and do well on it. It comes at a time of year when most needed. It grows best late in the summer or fall and yields an immense amount of feed. Is good to use as a "catch crop," sown on ground where other crops may for some reason have failed, as it grows very quickly. Sow 5 pounds to the acre broadcast. Pkt., 5c; lb., 25c; postpaid. Not prepaid, lb., 15c; 5 lbs. for 65c; 10 lbs. for \$1.00; 100 lbs. for \$8.00.

TREE SEEDS.

Osage Orange—Best of all hedge plants. By mail, postpaid, oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 40c; 5 lbs., not prepaid, \$1.25.

Catalpa (Speciosa)—The hardy western variety, largely planted. Rapid grower and makes the best timber trees. By mail, postpaid, pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

Honey Locust— $\frac{1}{4}$ lb., 15c; lb., 40c; 5 lbs., not prepaid, \$1.25.

INSECTICIDES



SLUG SHOT.

Non-poisonous; no danger need be apprehended by the person applying it, nor will it injure chickens or animals should they eat it, unless in large quantities. It does not render injurious the vegetable and fruits on which it is applied, and yet it is probably the best insect destroyer ever offered for the destruction of potato bugs and all worms and insects. It comes ready to be applied, and is simply dusted lightly on, so that it reaches all parts of the plants. For further information send for Slug Shot Circular; sent free.

Prices—By mail, postpaid, lb., 25c; not prepaid, 5 lbs., 35c; 10 lbs., 60c; 50 lbs., \$2.50; 100 lbs., \$4.50. Barrels, holding 235 pounds, net 4½ cts. per lb.

Dusters for Slug Shot or other Powders
—One-half gallon size, 30c.

SULPHO-TOBACCO SOAP.

In this preparation we offer to the florist, to the amateur grower, and all who are interested in flower growing, either indoor or outdoor, a tobacco preparation which meets the necessity for an easily

applied and absolutely effectual insect destroyer. It is dissolved in water and sprinkled or sprayed over the warm or cold plants. Very easily done, very effectual; absolutely safe to use on tenderest plant, and is non-poisonous. It is a very vigorous fertilizer. Small pkt., 10c; postpaid, 15c. Large pkt., 20c; postpaid, 25c.

Tobacco Dust—

Very effective, being leaves and not ground stems; much used

on cabbage and in vegetable hot-houses. Lb., 10c (by mail, postpaid, 30c). By express, 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00.

★ GRAPE DUST. ★

Is a preparation to kill the destructive mildew that strikes the grape vine, affecting the leaves, fruit and stems. "Grape Dust" is a compound which is quicker and more effectual in its action than sulphur. The price is as low as sulphur, and it will spread further. Applied with bellows. Price, per 5 lbs., 40c; 10 lbs., 60c; 100 lbs., \$5.00. By mail, postpaid, lb., 25c.

PERSIAN INSECT POWDER.

The best known of all insect destroyers, and when fresh is almost sure death to all kinds of insects. Postpaid, oz., 7c; $\frac{1}{4}$ lb., 20c; lb., 65c.

WHALE OIL SOAP.

One of the cheapest and most effective remedies to destroy slugs, bugs, insects, etc., on trees, plants, etc. Dissolve one pound in seven gallons of water and sprinkle on the foliage. Postpaid, lb., 30c; not prepaid, lb., 15c; 8 lbs., \$1.00.

POULTRY SUPPLIES

We carry a full line of poultry supplies, such as Mann's Bone Cutters, Wilson's Grinding Mills, Crushed Oyster Shell, Mica and Limestone Grits, Pratt's Poultry Food, Sheridan's Condition Powders, Lee's Lice Killer, Lamberts Death to Lice, Poultry Leg-bands, Markers, Drinking Fountains, and many other items. Send for complete price list.

BIGGLE POULTRY BOOK.

This is the most comprehensive and helpful poultry book ever gotten out, for in addition to the vast amount of valuable information covered in its seventeen chapters, there are sixteen beautiful colored plates, showing, true to color and shape, twenty-three varieties of poultry. Chickens, ducks, turkeys and geese are all shown in their proper plumage, and with comb, beak, and shanks as true to nature as it is possible to produce. Also, forty-two handsome engravings in half-tone, and sixty-one helpful illustrations of houses, nests, drinking vessels, etc. Price, postpaid, 50c.

FRUIT PACKAGES.

A neat, clean fruit package, in which to put your fruit, goes a long way towards selling it, and for highest market price. We carry a large stock and can usually supply in any quantity, from 1,000 to car load, of the **best White Wood**. The quality is unexcelled, the wood being the toughest fibre and close grained; hence no loss in making up. In ordering boxes it is best to get also a Form, Magnetic Hammer and Tacks, so you are ready to go ahead without delay making your boxes.

.. BOXES. ..

The Hallock Square, wine quart, consists of two pieces, and can be rapidly put together, making the strongest and most durable box made. Price per 1,000, \$2.25. Special price on large quantity.

Leslie, oblong wine quart box; 1,000, \$2.25.

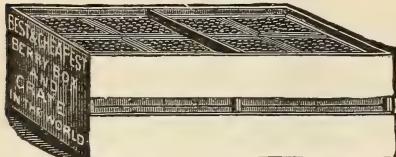
Tacks—For putting the quart boxes together— one pound to 1,000 boxes—oz., 5c; lb., 30c.

Magnetic Hammers—Which will take up the small tacks very rapidly without the aid of the fingers. 15c each; 2 for 25c.

Forms—Over which to make boxes, having an iron plate on one side to clinch the tacks on. Each, 25c.

Wire—For using on machine, \$1.25 per coil.

FRUIT PACKAGES—Continued.



.. CRATES. ..

Our 24 quart crate is a beauty, light and very strong. This size is now almost universally used in the West; will stand rough usage in shipping, being very strong. Price for 100 (in the flat), \$7.50.

PICKING STANDS.

These are made to hold six boxes at one time. Are tight, strong and durable. The boxes fit in snug so berries cannot fall in between. They save time in picking, and keep berries in best shape. Each, 8c; 10 for 75c.

GRAPE BASKETS.

We buy car lots, and make price as low as any one, considering stock. Special price on large quantities. Please write.

CHOICE SEED POTATOES.

We offer none but the best and most popular leading varieties, and none but what we know to be good. Many of the new sorts coming out annually contain no merit whatever over the old varieties. We select a few of the best and most distinct kinds, and offer them only. We book orders at any time and fill them in rotation just as soon, in our judgment, as the weather will permit. Customers will oblige by stating about what time they would like to have them. We ship quantities of a peck and upwards at purchaser's expense. By mail, postpaid, we will sell one pound, 30 cents; three pounds of any one kind, 75c.

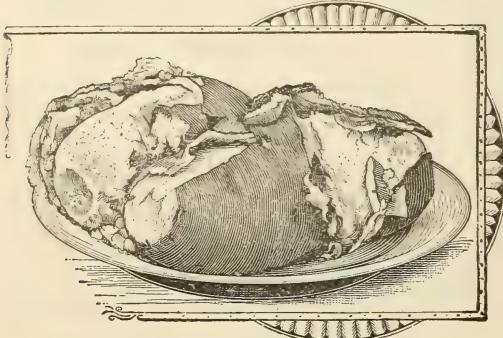
"New Potato Culture," by Carmen—75c. "A B C of Potato Culture," by Terry—35c.

Extra Early Ohio—Undoubtedly the earliest potato grown. You can always dig an Early Ohio just a few days sooner than any other variety, are good and dry for eating soon as large enough, and from that time (about June 10th) until potatoes come again. Northern grown seed. Pk., 40c; bu., \$1.25; bbl., \$3.25.

Early Ohio (Home grown seed)—Good stock, but not so smooth as the northern grown seed. Pk., 30c; bu., \$1.00; bbl., \$2.50.

Early Rose—The old standard early potato so familiar to everyone. Our stock is Minnesota grown, and smooth and nice like the old Early Rose in its "palmy days." Pk., 30c; bu., \$1.00; bbl., \$2.50.

Early Beauty of Hebron—One of the best early varieties; productive. Our stock of these will be choice. Pk., 30c; bu., \$1.00; bbl., \$2.50.



SENECA BEAUTY.

CLIMAX BASKETS.

Has wooden bottom and light covers, and is the one most generally used, being very strong, so that fruit can be shipped any distance without injury. The baskets are nested and the handles shipped separately for convenience in handling. We furnish wire and stapling for fastening lids on; also tacks for handles. \$3.00 per 100; \$25.00 per 1,000.

DIAMOND MARKET BASKETS

These are made of nice, straight-grained elm splints, so cut as to be very smooth. Are shipped nested. They hold about twenty pounds of grapes. Dozen, 35c; 100, \$2.75.

BUSHEL BASKETS.

We have secured the finest stock of these possible. They are nice and smooth, inside and out; made of elm and have good strong handles. They are so cheap no gardener can afford to be without them, or to use old store boxes, which are at all times unsightly, and hurt the sale of the best fruits and vegetables. Each, 1sc; dozen, \$1.50.

Fruit packages shipped at expense of purchaser

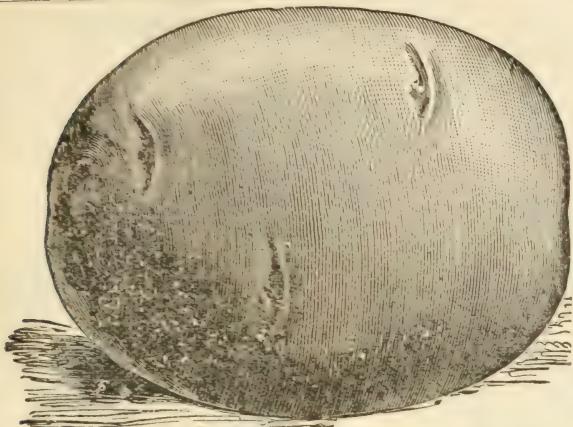
Seneca Beauty—The tubers are large to very large, very smooth, with few eyes close to surface, of beautiful pink color; uniform in size and shape, scarcely any small ones. Vines rank and healthy. Cooks dry, and is fine grained. Is of splendid quality. A good keeper and heavy cropper. On account of its distinct appearance in shape and color it can be kept pure and easily selected. Pk., 30c; bu., \$1.00; bbl., \$2.50.

Mill's Prize—A choice medium late sort producing crops of unusual size when others fail. It is very hardy. It has very white flesh which does not turn black after cooking, making it a desirable variety for hotel or restaurant trade. It is of good quality. Pk., 30c; bu., \$1.00; bbl., \$2.50.

Rural New Yorker No. 2—This potato is of large size and unusually smooth; has few and shallow eyes, oblong, is inclined to round, slightly flattened; the skin white, also the flesh; of superior quality. Matures medium late. The yield is very large and uniform. Pk., 30c; bu., \$1.00; bbl., \$2.50.

The Bonanza—A splendid medium late sort, especially desirable for main crop. Large, slightly oblong and flattened; skin smooth, rose color. Very distinct—your customers get to know them. Eyes shallow, flesh white, fine grained and dry; good flavor. Very productive. Pk., 30c; bu., \$1.00; bbl., \$2.50.

Mr. G. W. Cox, Decatur county, Iowa, writes, Feb. 18, 1898: "I have spoken good words for your seeds and when in need of anything in your line you will receive my custom."



LIVINGSTON'S BANNER.

Sweet Potatoes.



One bushel, under favorable circumstances, will produce 2,500 plants.

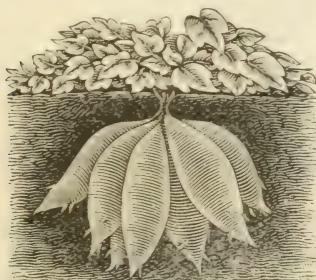
We get Sweet Potatoes from growers who make a business of storing and packing for seed purposes. They are properly handled and will produce large, vigorous plants abundantly. We begin shipping about April 10th. As they sometimes begin rotting soon after leaving the storage house, customers must be prepared to put them into the beds as soon as they arrive.

Yellow Jersey—Pk., 50c; bu., \$1.25; bbl., \$3.00.

Yellow Nansemond—Pk., 50c; bu., \$1.25; bbl., \$3.00.

Red Jersey—Pk., 50c; bu., \$1.40.

Book on Sweet Potato Culture—60c.



NEW VINELESS SWEET POTATO.

NEW VINELESS Sweet Potato.

Entirely vineless, having a short, bunchy, upright top. A rapid grower, so that it matures in a short season, will ripen further north than any other sweet potato. A prolific bearer of long, yellow, sweet and rich tubers. Stands drouth; no vines to run. The best and earliest acquisition in the sweet potato line for years. Succeeds best on light, sandy ground. Price, lb., 25c; pk., 50c; $\frac{1}{2}$ bu., 90c; bu., \$1.50; bbl., \$3.25.

Livingston's Banner—

Handsome in appearance; skin light cream color; slightly russeted; handsome shape, slightly oblong and flattened on the sides. Few and shallow eyes; almost entirely scab proof, as shown when grown at same time with other varieties which were badly affected. Of large size, very few small ones, and never prongy. No sorting necessary; growth is vigorous from the very sprout, consequently a good drouth-resisting sort. Of fine quality. When either baked or boiled it is white as flour. Never hollow. A main crop all-purpose potato. Medium late in time of ripening. Pk., 40c; bu., \$1.25; bbl., \$3.25.

Mr. S. R. Castle, Hamilton county, Iowa, writes, March 19, 1898: "Your seeds have always given entire satisfaction."

LIVINGSTON'S

Mammoth Artichokes.

A fine white variety, producing large crops of this truly excellent root for hog food. It is also good for cattle, horses and sheep. It increases flow of milk when fed to cows. They are made into pickles; can be eaten raw, and are cooked by some. They are, however, of greatest value used as hog food. They are the cheapest and healthiest hog food grown. The hogs simply help themselves, and save the trouble, time and hard work of digging. If left in the ground they do not hurt by any amount of freezing and thawing; so you can turn in the hogs on them in the fall or spring; in the fall, in this latitude, about October 1st is the proper time. When they begin to sprout in the spring the hogs should be removed, as they will soon destroy them. If at any time you wish to destroy them from a piece of ground, let them sprout in the spring to about one foot high, then plow under or turn in hogs, and there will not be many left. They can be planted spring or fall. Cut tubers same as potatoes, only smaller; plant in rows $3\frac{1}{2}$ feet apart, 18 inches in the row. Plow deep; plant shallow, about two inches; cultivate same as corn first season; they don't need it after the first season. They yield 500 to 1,000 bushels to the acre. Drouth does not seem to affect them, but very little, if any. Lb., 25c, postpaid; pk., 40c; bu., \$1.00; 5 bu. (enough for an acre), for \$3.75.

FERTILIZERS.

Express or freight to be paid by purchaser.



Bowker's Food for Flowers.

Perfectly odorless and clean. Full directions and the care of household plants is given in a little booklet entitled "Window Gardening" free with each package. Small package, 15c; postpaid, 25c. Large package, 25c; postpaid, 40c. (Cut shows large package).

Pure Ground Bone

Good for all purposes; especially adapted for lawns and florist's use. Price, per lb., 10c; 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 100 lbs., \$2.25; bag (200 lbs.) \$4.50.

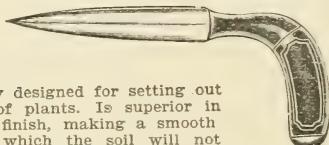
FERTILIZERS—Continued.**NITRATE OF SODA.**

Should be sown broadcast, very evenly. It has the effect of warming up the soil and giving vegetables an early start, and aids in bringing them to a quick maturity. Two or three pounds on a square rod will be found very beneficial. 25 lbs., \$1.25; 50 lbs., \$2.25; 100 lbs., \$4.00.

SUPERPHOSPHATE.

Analysis—Ammonia, 2½ to 3½ per cent; soluble phosphoric acid 4 to 4½ per cent; reverted phosphoric acid 4 to 4½ per cent; insoluble phosphoric acid 4 to 4½ per cent; actual potash 0.54 to 1.08 per cent. Stands without a rival as the largest crop producer at the smallest outlay. 5 lbs., 30c; 10 lbs., 50; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.50.

Mr. A. K. Jones writes us under date of June 28, 1898: "Your sample of Super Phosphate was received and tried on several hills of melons; about a teaspoonful to a hill. It seemed slow in action, but now (after about ten days) there is such a contrast between the hills not fertilized with it and those that are, that they look like two different varieties of melons. One being small, puny, light green; the other, large, vigorous and very dark green. Send me out 50 pounds, which, I think, will do for all I have."

GARDEN TOOLS.
Improved Transplanting Dibble.

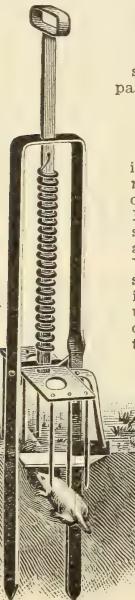
Especially designed for setting out all kinds of plants. Is superior in design and finish, making a smooth hole, into which the soil will not easily fall. Is made entirely of iron, is hollow, thus avoiding unnecessary weight. Very strong, and just fits the hand. Each, 35c; postpaid, 50c.

Wood Handle Dibble.

This dibble has a smooth steel point. Each, postpaid, 35c.

Reddick Mole Trap.

All the traps boiled down into a better one, at a much less price. No mole can pass under it and live. Easily operated, can be set in a moment. Will last a lifetime with proper care. We have sold this trap for several years, and the satisfaction given has been universal. Directions for operating goes with each trap. Price, 75c; cannot be sent by mail.

**Out o' Sight
Mole Trap.**

A new trap, offered for the first time this season. See page 48 for cut and price.

Scotley's Plant Sprinkler.

Indispensable for floral work or window gardening. Very useful for dampening clothes, or for all purposes where sprinkling is necessary. They are often used for years constantly, and apparently remain as good as when new.

Large Size—Either straight or angle neck. Each, \$1.00; postpaid, \$1.10.

Medium Size—Each, 75c; postpaid, 83c.

Small Size—Each, 50c; postpaid, 56c.

**LITTLE GIANT
Broadcast Seed Sower.**

We feel safe in saying that this is the best Hand Broadcast Seed Sower in the market. It is simple in construction, light, strong and durable, and has a pressed tin distributing wheel, and weighing but 3 pounds complete. Has an agitator to prevent the seed clogging the opening. Very handy to have about. Always ready for use. Requires no experience to use it.

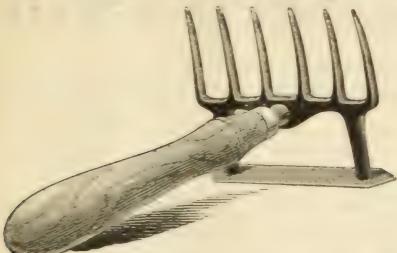
Fiddlebow \$1.50.

Crank 2.25.



Mr. Chas. Barnard, Allamakee, county, Iowa, Jan. 31, 1898, writes: "All the seeds that I have got from you have given good satisfaction. I will recommend them to my neighbors."

THE COMBINATION WEEDE



Combining both the rake and hoe. It is a Perfect Weeder. Specially adapted to cutting weeds and grass, shallow cultivation, and stirring of the soil of all garden crops and flower beds. It is neatly and strongly made, the blade of the best spring steel, sharpened on both edges. Price, 30c; postpaid, 40c.

EXCELSIOR WEEDING HOOK.



Indispensable to the cultivator of flower or vegetable garden. Price, 15c each; postpaid, 20c.

STEEL GARDEN TROWELS.

Very useful in loosening the soil or in transplanting of plants. They are made of fine Cold Rolled Steel with Malleable Iron Shanks, firmly riveted. A first-class article of the kind. Six inches in length, 20c, postpaid; 7 inches in length 25c, postpaid.

Forged Steel Garden Trowels—The blade and shank are made of **one piece of steel**, being forged out in the same way as masons' brick trowels. They are very strong. 5 inches in length, 40c; 6 inches in length, 50c, not postpaid.



New Handy Digger—This trowel is one solid piece of steel; shank and blade, very strong, and will not pull out of the handle. Small, each 25c; large, 50c, postpaid.

LIGHTNING INSECT EXTERMINATOR.

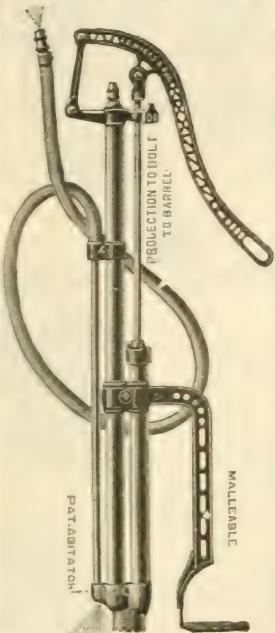


It kills or drives away everything in the way of an insect pest, obnoxious to yourself, your animals or your crops. The air chamber is of large capacity so that only one stroke is necessary to cover an entire hill of potatoes; and the reservoir holding two quarts supplies sufficient for 2,000 hills.

It is a great saver of liquid insecticides as it throws a spray as fine as mist. Not a drop of it is wasted, as it is so fine that it readily adheres to all parts of the foliage. It is adapted to all crops growing near the ground, also small fruit trees; to stock raisers to spray their work horses or milch cows with, to drive away flies, using: Fish oil, two quarts; crude carbolic acid, one pint; oil penny royal, one ounce; oil of tar, eight ounces. Mix together and spray with the Lightning Exterminator, thereby relieving the animals of pain and misery caused by these pests. We can also furnish formula for killing plant lice, fleas, beetles, Aphids, Mealy bug, etc. Price, No. 1, Single Tube, 50c. No. 2, Double Tube, tin, 60c. Galvanized, 75c.

LEVER

Bucket Brass Spray Pump.



With Agitator complete with hose, combination Vermoral Fine and Coarse Spray and Solid Stream Nozzle. This Spray Pump is constructed of brass and is not affected by the poisonous arsenites used for spraying. It is arranged so that the heavy work is done on the down stroke of plunger and nothing on the up. It is thus very easy to operate and has extraordinary power. Will throw a solid stream 50 feet, and is of unusual value for washing windows, etc. For spraying it is arranged so that it discharges a fine jet in the bottom of bucket to keep the solution thoroughly mixed and agitated. The pump is provided with a combination nozzle, and also with a sprinkler for

flowers, and will throw a spray as fine as mist, or as coarse as required. It can be bolted to the inside of a barrel if wanted by removing the foot rest. Price, complete, \$3.75.

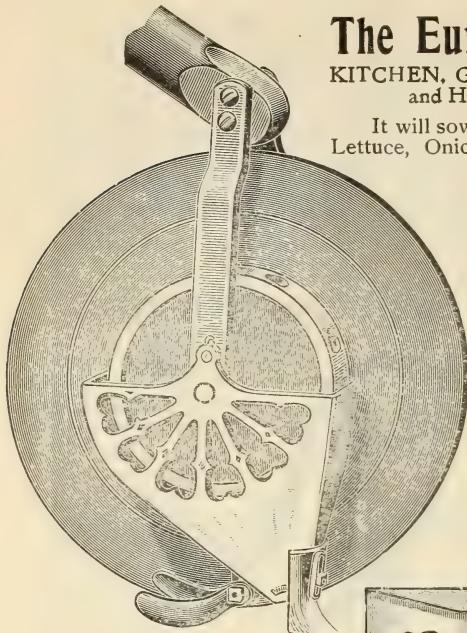
Other pumps of larger capacity can be supplied on short notice. Send for complete price list.

JADOO—Fibre.

A New Potting Material in which Every Plant Thrives Without Earth.

It is cleaner than earth, half as light, is spongy and requires watering only half as often. Worms cannot exist in it—no soil to mix—no manure required. Seeds germinate in it more quickly than in earth. Price, by freight or express, not prepaid, 5 lb., 30c; 10 lbs., 30c; 25 lbs., \$1.10. Bag (about 120 lbs.), \$3.60.

Mr. A. L. Foxworthy, Dawes county, Neb., writes: "Your seeds gave satisfaction last year. I have got seeds from several different firms; yours were the best."



This drill contains many good points. The hole through the slide, where all the seeds have to pass, is adjustable, and the slide can be changed to a fraction by the operator, thus admitting exactly the quantity of seed required. The hole is diamond shape, as shown in cut, which is another advantage for rough or irregular shaped seeds. It has an index showing where to set it for sowing different varieties of seeds, and can be changed in an instant. The flow of seed can be stopped at any moment by a swinging cut-off, which does not injure the seed, and is, therefore, the means of saving much seed that would otherwise be wasted at the ends of rows, etc. Have sold this drill for years with the best of satisfaction. Price, \$6.50.

The Eureka KITCHEN, GARDEN and HOT BED Seed Drill

It will sow and cover Beets, Cabbage, Carrots, Celery, Lettuce, Onions, Radishes, Spinach, Turnips and all such seeds with the greatest regularity. The quality of work equals that done with the costly machines, and infinitely better and faster than hand work.

Have You a Kitchen Garden? Don't try to do without this little planter another season. Your garden will smile approbation all through the season if you use the **EUREKA**.

Have You a Hot Bed? This drill you must have. It's the **only** machine suited to sow in a hot bed. Sows up close to the sides in straight rows. Sows the smallest packet of seeds as well as a large bulk.

BY USING THIS DRILL You Save Seed.

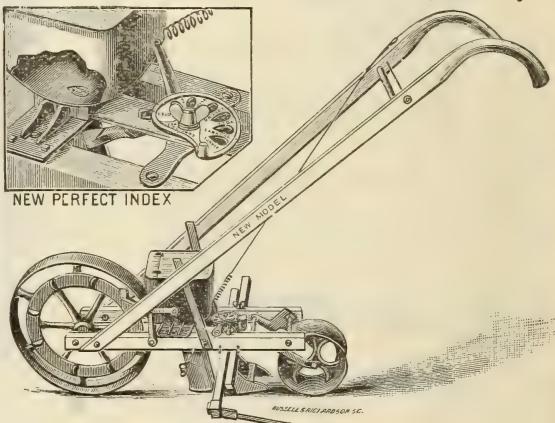
You Save Time.

You Stand in an Upright Position.

The Work is Easy. You Get a Better Stand.
You Get Better Plants.

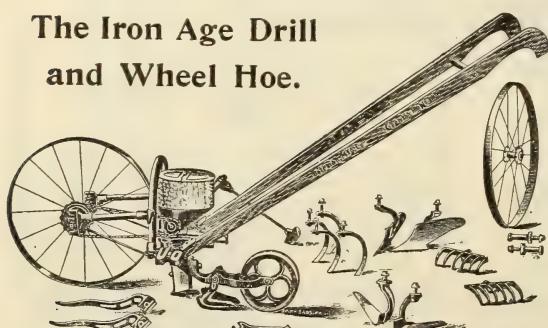
PRICE IS ONLY \$1.00 or I will send it free with an order for seeds in packets to the amount of \$2.00

The New Model Seed Drill.



NEW MODEL DRILL.

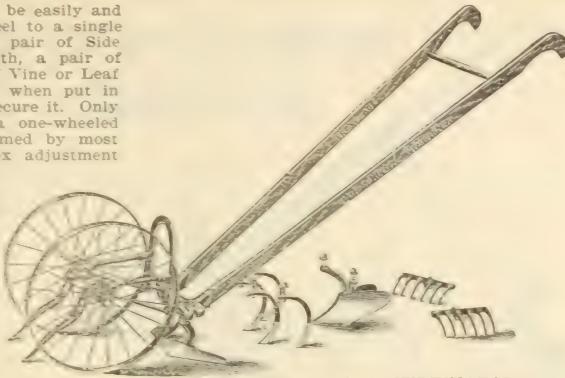
The Iron Age Drill and Wheel Hoe.



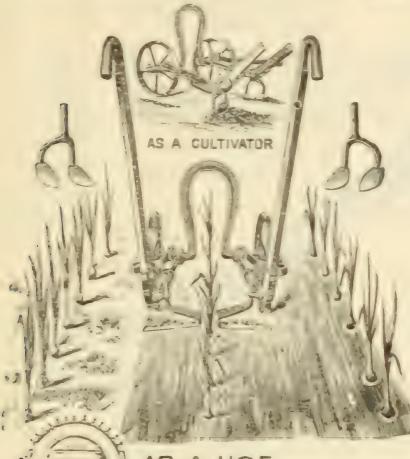
"IRON AGE," AS A DRILL.

The new Iron Age Wheel Hoe has changed the old back-breaking method of hoeing into a work of pleasure. They are the result of years of experience and from a study of the requirements when in the field. Instead of the old frames made of heavy iron we have in these what might be termed a machine of "bicycle construction," as it is so light in weight, and yet so strong. The wheels are of steel and are sixteen inches in height. Three changes in height of wheels can be made by simply loosening the nuts, but it is not necessary to remove them entirely. The wheels may be run inside of the frame for working in narrow spaces; and by the use of an extra

axle sent out with each tool, it can be easily and quickly changed from a double wheel to a single wheel hoe. The attachments are a pair of Side Hoes, a set of four Cultivator teeth, a pair of Plows, a pair of Rakes and a pair of Vine or Leaf Lifters. The Seed Drill Attachment when put in its place requires only two bolts to secure it. Only one wheel is used when drilling; a one-wheeled drill being easier to guide, as claimed by most gardeners. The seed slide and index adjustment to sow the various seeds is very simple and can be set to sow any size or shape of seed. The agitator is a revolving, bristle-brush which acts as a force feed but does not injure the most delicate of seeds. For complete description of everything in detail in connection with this most excellent tool, send for Iron Age catalogue. Price of Wheel Hoe alone, \$6.00, or Combined Drill and Wheel Hoe, \$9.00.



"IRON AGE." AS A CULTIVATOR.



McGEE CULTIVATOR.

.. McGEE .. Garden Cultivator.

For hand cultivation no tool has ever been produced that excels the McGee Garden Cultivator, either in ease, quickness or thoroughness of work. It has an arch frame and two wheels, like a tongueless cultivator. Springs between the beams, or handles, and arch, enables the operator to control easily, accurately, and instantly the side movement of the knives or cultivators. The McGee is furnished with a set of weeding knives and a set of cultivators, but other attachments for all kinds of work are made. Send for price list of attachments. Price, only \$4.00.

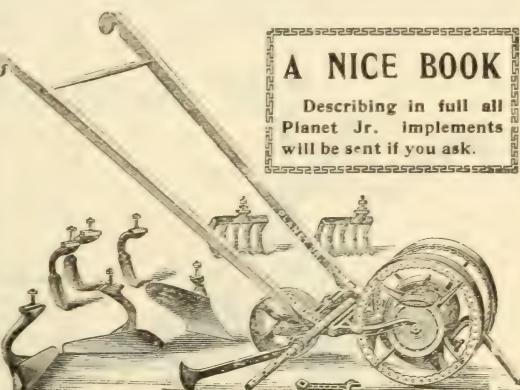
Mr. S. J. Coughlan, Jasper county, Iowa, writes, March 26, 1898: "For two or three years we patronized your store in ordering garden seeds, and with the very best success. Wishing to again secure your good seed, will order the following list. * * *"

"PLANET JR." GARDEN TOOLS.

Freight prepaid to your Station if not to exceed 200 miles from Des Moines, Iowa, or Peoria, Ills.

"PLANET JR." COMBINED DRILL

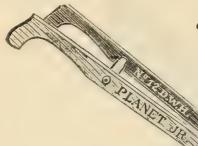
Is unexcelled for convenience and capacity for work. It is suitable for either farm or the garden. As a seed drill it does the work perfectly. For the care of the crop it is supplied with a pair of rakes, a pair of hoes, three reversible cultivator teeth, and a large garden plow. As a Rake it is used for delicate cultivation of the crop and for covering seeds, etc. As a Hoe it works safely and closely both sides of the row at once when plants are small; between rows when plants are large. As a Plow it opens furrows, covers them, plows to and from the rows, etc. As a Cultivator it is admirably adapted to deep, mellowing of the soil. All the blades are tempered and polished steel. Price, \$9.00.



"PLANET JR." COMBINED DRILL.

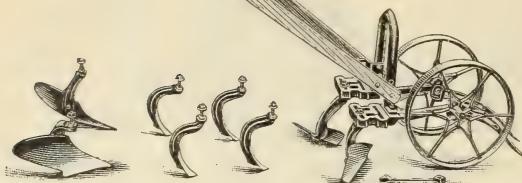
A NICE BOOK

Describing in full all
Planet Jr. implements
will be sent if you ask.



"PLANET JR." No. 12

Double Wheel Hoe,
Cultivator and Plow.



"PLANET JR." NO. 12.

The "PLANET JR." No. 13 Double Wheel Hoe.

This tool is the No. 12 with 6 inch hoes only, this pair of tools being most generally useful at all seasons. Any or all of the No. 12 tools may be added at any time, and are sure to fit. Price, \$4.00.

"PLANET JR." No. 17 Single Wheel Hoe.

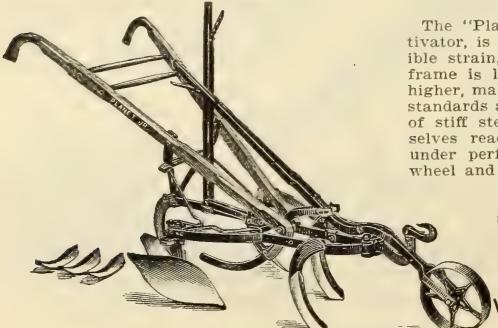
This latest and best Single Wheel Hoe, improved for 1899, has an 11 inch wheel, with broad face, and a conveniently arranged and very full set of tools, such as have been found to perform Wheel Hoe work in the very best manner. It is very light and strong and easy running, and does a great variety of work. Has adjustable handles and frame, especially adapted for quick changing of teeth. It is a most perfect Wheel Hoe for market gardeners or for private places. The tools are a well-shaped plow for cultivation; a pair of neat 6-inch shield hoes, just right for hoeing in rows from 9 to 14 inches.

The frame changes in height, and the wheel to the other side of the frame, when both sides of the row can be hoed at one passage. Price, \$4.00.

The "PLANET JR." No. 18 Single Wheel Hoe.

With the same frame and handles as No. 17 it has one pair of 6-inch hoes only, but they are the most constantly useful through the season of all the list. The remainder you buy as wanted. The frame changes in height, and the wheel to the other side of the arm, when wishing to hoe both sides of the row, at a single passage, while plants are small. Price, \$3.00.

"PLANET JR." NO. 8, HORSE HOE.



The "Planet Jr." Combined Horse Hoe and Cultivator, is so strongly built as to withstand incredible strain, yet is light and easy to handle. The frame is longer than usual and about 1½ inches higher, making a tool that will not clog easily. The standards are formed up hollow with round throats of stiff steel; they polish quickly and free themselves readily from obstructions. The depth is under perfect control by means of a new lever wheel and the new patented depth regulator. The expander, an entirely new pattern, superior to all other forms; exceedingly strong, simple, accurate and positive in all positions.

PRICE \$7.50.

WITHOUT DEPTH REGULATOR \$7.

"PLANET JR." No. 17

Single Wheel Hoe,
Cultivator
and Plow.

Price, \$4.00



"PLANET JR." NO. 18

Single Wheel Hoe.

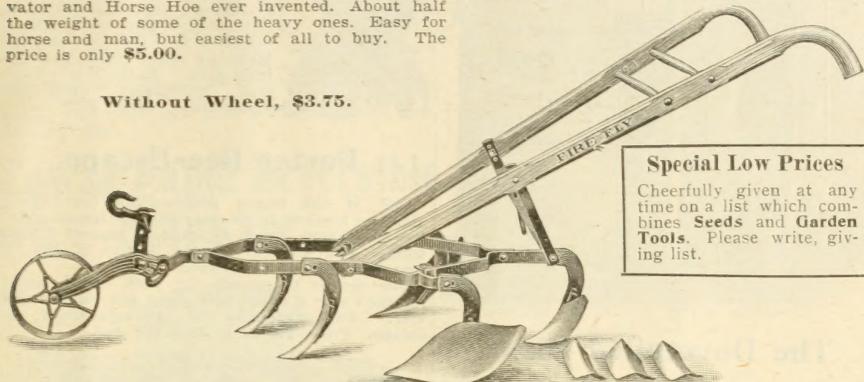
"PLANET JR." NO. 8

Horse Hoe.

THE FIREFLY FIVE-TOOTH CULTIVATOR.

This is a new model Five Tooth Cultivator and Horse Hoe, with solid frame, stiff handles, adjustable in height, open frame, hollow steel standards. No expanders or hinge. Outside width of frame 18 inches. Width of cut quickly changed from 25 to 12 inches, by loosening two set screws. No loose joints; low frame, but no clogging; work in open view; the most desirable cheap Cultivator and Horse Hoe ever invented. About half the weight of some of the heavy ones. Easy for horse and man, but easiest of all to buy. The price is only \$3.00.

Without Wheel, \$3.75.



Special Low Prices

Cheerfully given at any time on a list which combines **Seeds** and **Garden Tools**. Please write, giving list.

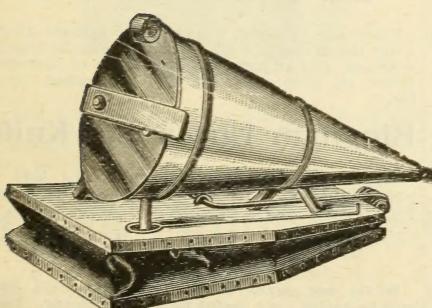
"PLANET JR." 12 TOOTH HARROW.

This comparatively new tool has rapidly grown into favor with farmers, market gardeners and strawberry growers. It is carefully made and finished, has a high frame and the chisel-shaped teeth **cut an inch wide each**, and may be worn down three inches before that width is lessened or the teeth worn out; even then they are cheaply replaced. It may be set **with teeth trailing**, by simply changing one bolt in each tooth. **The foot lever pulverizer** is a capital addition for preparing ground for the seed drill or for plant setting, and controls the depth of the rear teeth. Hand levers regulate both width and depth **while in motion**; it contracts to 12 inches, and may be further reduced in width by taking off the outside teeth; it expands to 32 inches. It cultivates deep without throwing earth upon the plants, and the smooth, round-throated teeth turn strawberry runners without injuring them.

For cutting strawberry runners we make a special attachment, consisting of a 10-inch flat steel disc mounted on an outrigger. **Price, 12 Tooth Harrow, plain, \$5.00; wheel, additional, \$1.25; Pulverizer, additional, \$1.25; Strawberry Runner, additional, \$1.50.**

"PLANET JR." 12-TOOTH HARROW.

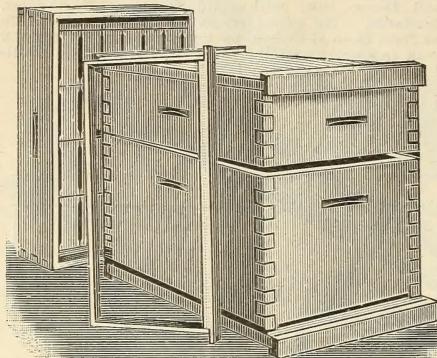
Clark's Cold-Blast Smoker.



The **Clark Cold-Blast Smoker** has probably exceeded the sales of all the others put together, the annual number sold amounting to from fifteen to twenty thousand. Besides being cheap in price, it is well made, of good size, reliable and serviceable. It is a breech-loader, and therefore is easily replenished by simply revolving the sliding door—no hot cone to replace and no burning of fingers. It is easily lighted with a match, and when once well going it will not go out. It has been so improved during the past two years that it gives nearly the volume of smoke of a hot-blast. Full directions for use accompany each smoker. Price, 50c each; by mail, 70c.

BEE KEEPER'S SUPPLIES.

The growing demand for bee keeper's supplies has caused us to put in a line of the most important article wanted in that line, and can get at short notice, anything not found listed here.



The Dovetailed Hive.

The **Dovetailed Hive** is taking the lead of the single-walled hives, as it contains many of the most desirable features of the various hives for rapid handling of bees, and is one of the cheapest hives manufactured.

It is dovetailed together, as shown in cut, and that is what gives it its name.

..Price List of Hives..

No. 1 Dovetailed Hive is one story, consisting of bottom, cover and body, with eight frames and division board. Each, nailed and painted, \$1.00. In the flat, each, 80c; 5 for \$3.75; 10 for \$6.50.

No. 2 Dovetailed Hive is one and one-half story, for comb honey complete except sections and foundation starters; nails and separators included. Each, nailed and painted, \$1.40. In the flat, each, 1.10; 5 for \$5.00; 10 for \$9.00.

No. 3 Dovetailed Hive is one and one-half story, complete for comb honey, with sections, foundation starters and nails. Each, nailed and painted, \$1.70. In the flat, each, \$1.30; 5 for \$6.00; 10 for \$11.00.

SECTION BOXES.

Made of snow-white bass wood, $4\frac{1}{4} \times 4\frac{1}{4}$, 17 inches wide, holding one pound.

| | | | |
|----------------|-------|----------------|---------|
| Per 100..... | \$ 50 | Per 2,000..... | \$ 5.70 |
| Per 500..... | 1.50 | Per 3,000..... | 8.25 |
| Per 1,000..... | 3.00 | Per 5,000..... | 12.50 |

BINGHAM SMOKER.

This smoker is well made, has many excellent qualities and is perhaps as near a perfect article as can be had for the money. Prices as follows:

| When ordered with other goods or by express | When ordered sent by mail. | |
|---|----------------------------------|--------|
| Doctor 3 $\frac{1}{2}$ inch barrel..... | .85 | \$1.10 |
| Conqueror 3 inch barrel..... | .75 | 1.00 |
| Large 2 $\frac{1}{2}$ inch barrel..... | .70 | .90 |
| Plain 2 inch barrel..... | .55 | .70 |
| Little Wonder 1 $\frac{1}{4}$ inch barrel | .50 | .60 |

BEE VAILS.

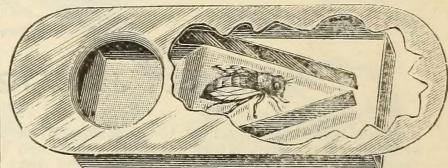


These veils have a rubber band around the top so as to fit the hat snugly. The lower edge is bound, to prevent fraying. Made of cotton tulle with silk tulle face. Each, 50c. Cotton tulle throughout, each, 40c; mosquito-bar, each, 25c.

Porter Bee-Escape.

One of the recent developments that greatly aids the bee-keeper in removing his honey crop is the bee-escape, which is made in several different forms. The **Porter** escape is one of the best that has come to our notice.

One escape is enough for each board, and is fastened over a round hole about one inch in diameter. Full directions for use accompany each escape. Price, 20c each; \$2.25 per doz.



Cogshall Bee Brush.

This is a whisk broom specially made for brushing bees from combs by being made much thinner and longer. With it the bees can be removed from combs very gently. Price, 15c each; by mail, 20c.

Manum's Swarm Catcher.

We have tested and examined many swarm-catchers, but have never found anything that would begin to compare with the **Manum**. It is simply a wire-cloth basket with a lid to close it. To hive a swarm whose queen is at large with the bees, open the basket, push it up around the cluster of bees, jar the latter off the limb, and close the lid. Half or two-thirds of the bees will be in the basket. Price, with pole, \$1.00. Without pole, 75c.

Bee Entrance Guards.

These are to admit workers, but exclude drones. After the drones are all out fix the guards over the entrance, and at night the drones can be destroyed. Price, 10c each; by mail, 15c; by express, 10 for 80c.

Bingham Uncapping Knife.

This style of knife is altogether the best for uncapping, but is not suitable for cutting honey, transferring, etc. Price, 70c; by mail, 80c.

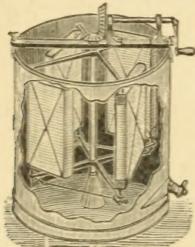
Novice Honey Knife.

While not equal to the Bingham, this knife will be found very useful to the bee-keeper. Each, 70c; by mail, 75c.

Alley's Queen and Droan Trap.

This will automatically catch and cage the drones in an apartment by themselves. They can then be carried to another apiary, or be destroyed, as circumstances require. The trap will also catch the queen when the swarm issues, and hold her confined until the apiarist can give her his attention. As she cannot get away, the bees will in all likelihood return into the hive. Or if you happen to be on hand when the swarm comes out, the trap with the queen can be placed among the flying bees. The latter will probably cluster about the queen, and they may then be hived. Price, 50c; by mail, 65c.

Cowan Rapid Reversible Extractor.



This is an excellent machine when rapid work is required. The baskets do not reverse automatically, but have to be turned by hand, but this can be done very quickly. The machine is strong and well made. Price, two frame Simplicity size, \$10.00.



The new side-gearred Novice Honey Extractor for L. or Simplicity Frame, is a very durable and practical machine. The best on the market for the money. Price, \$7.00.

COMB FOUNDATION

All our comb foundation is made from pure bright yellow beeswax. The lightest colored is selected for thin foundation for sections, and the

rest is made into comb foundation for the brood chamber. Price, medium brood foundation, 5 to 6 square feet per lb., 47c per lb.; 10 lbs. for \$4.50; thin surplus foundation, 10 square feet per lb., 65c; 10 lbs. for \$6.25.

Foundation must be sent by express.

Queen Bees.

| | |
|-----------------------|--------|
| Untested Queens | \$1.00 |
| Tested Queen | 1.50 |

Spur Wire-Imbedder.

This is a little tool like a tracing wheel, with the teeth set in such a way as to straddle the wire while it is in the act of imbedding. It is the best tool we have ever tried for the purpose.

Price, 15c; by mail, 18c.

Daisy Foundation Roller.

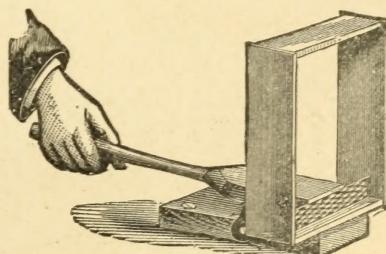
To fasten foundation to the frame.
Price, 15c each; by mail, 18c.

Simplicity Feeder.

| | |
|---------------------------------------|-----|
| Simplicity Feeder | .05 |
| Simplicity Feeder in lots of 10 | .35 |

The A B C of Bee Culture.

Fifty-second thousand now out. A cyclopedia of everything pertaining to the care of the honey-bee. By A. I. Root. This is a cyclopedia of over four hundred pages, and is beautifully illustrated by three hundred original engravings, many of them full page. Some of the latter embrace a view of the apiaries of some of the largest and most successful bee-men. The whole work is elegantly bound in cloth, seven inches wide by ten and a half inches long, and embossed on side and back in gilt. Price, \$1.20.



PARKER'S FOUNDATION FASTENER.

For 1 lb. sections, 25c; by mail, 40c.

LIVINGSTON'S Annual Seed CATALOGUE



LIVINGSTON'S SEED STORE

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DES MOINES, IOWA.